Реферат за избор проф. др Владимира Брусића у ИНОСТРАНОГ члана АИНС

1. Биографски подаци

Биографија Кандидата (пријава: стране 3 и 7) презентирана је јасно и тачно (проверено).

Владимир Брусић рођен је 19. маја 1959. године у Београду. Дипломирао је 1983. године на Машинском факултету Универзитета у Београду (УБ) смер за Медицинско машинство. Магистрирао је 1987. године је у Центру за мултидисциплинарне студије УБ из области биомедицинског машинства. Након магистрирања, школовање је наставио је у иностранству: из области информатике (Graduate Diploma in Computer Science-1991, Master of Applied Science in Information Technology-1997) и бизниса (Master of Business Administration-2001). Докторску дисертацију, из области биоинформатике, одбранио је 2001. године на La Trobe University (Мелбурн, Аустралија).

Од 2018. године Кандидат је у звању редовног професора на University of Nottingham Ningbo China, где је и директор Laboratory of Smart Medicine. Пре тога, у звању редовног професора био је ангажован на универзитетима у САД, Аустралији и Казахстану, док је у звању ванредног професора био ангажован на универзитетима у Аустралији и Сингапуру. Кандидат је гостујући професор на универзитетима: Griffith University-Аустралија, Kumamoto University-Јапан и Boston University-САД (https://research.nottingham.edu.cn/en/persons/vladimir-brusic). Осим тога, Кандидат је у периоду 2006-2014 био директор биоинформатике у Центру за вакцину против рака ("Cancer Vaccine Centre, Dana-Farber Cancer Institute" Универзитета Харвард, Бостон; пријава: страна 48).

Радови Кандидата публиковани су у најпрестижнијим научним часописима: три рада у Nature Biotechnology (https://doi.org/10.1038/nbt1098-966, https://doi.org/10.1038/nbt.2777 и https://doi.org/10.1038/nbt.3344) један рад у Nature (https://doi.org/10.1038/nature01266) један рад у Science (https://www.science.org/doi/10.1126/science.1112014) и кратко саопштење у Nature Medicine (https://doi.org/10.1038/nm0595-388).

Кандидат има два патента регистрована у САД, као и један патент регистрован у Кини. Осим тога, има и шест патентних пријава у Кини (пријава: стране 33 и 34).

Цитираност научноистраживачких резултата Кандидата, као и Хиршов индекс (H-index) врло су високи: WoS: број цитата радова: 11,788; број цитата патената: 490; H-index=47; Scopus: број цитата: 12,841; H-index=48; Google scholar: број цитата: 19,167; H-index=61. (ажурирани подаци: сајтови на страни 8 пријаве).

Кандидат је почасни доктор наука, уврштен је на „Стенфордску листу" и сврстан је међу најцитиранije кинеске научнике (одељак 5. реферата).

Захваљујући природном дару и карактерним особинама, мултидисциплинарном образовању у области технике, као и образовању у области бизниса, Кандидат је успешно обављао функције декана, директора и руководиоца лабораторија, као и катедре (пријава: страна 48).

2. Научни резултати

Комисија је детаљно проверила обимну библиографију Кандидата и сагласно Правилнику за избор у научна звања министарства задуженог за науку, извршила категоризацију научноистраживачких резултата Кандидата, користећи при томе означавање „с. рбс/р. рбр" (с.=страна пријаве; рбс=редни број стране; р.=рад; рбр=редни број рада на страни). Резултати категорије М14 (укупно осам; с. 9/р. 1-8) исправно су категорисани, док један резултат М12 (с. 9/р. 1) припада категорији М17. У категорију М21(а) - укупно 49 радова - сврстани су следећи радови: с. 10/р. 3-6, 8, 9; с. 11/р. 10-17; с. 12/р. 18-22, 25, 26; с. 13/р. 27, 30, 31,33, 35-37; с. 14/р. 38, 42, 43, 4, 5; с. 15/р. 11, 13-16; с. 16/р. 18, 20, 24, 25, 27; с. 17/р. рад 5; с. 20/р. 1; с. 21/р. 6; с. 24/р. 7; с. 26/р. 7, 9. У категорију М21 - укупно 56 радова - сврстани су следећи радови: с. 12/р. 23 и 24; с. 13/р. 28, 29, 32, 34; с. 14/р. 39-40, 3; с. 15/р. 8-10, 17; с. 16/р. 21-23, 28, 29; с. 17/р 2-4, 6-11; с. 18/р. 13, 15, 19-21, 24; с. 19/р. 26-32; с. 20/р. 36, 38, 39, 5; с. 21/р. 3, 8, 9; с. 22/р. 12; с. 23/р. 25, 26, 29, 2/М23; с. 25/р. 20; с. 27/р. 23; с. 28/р. 31. У категорију М22 - укупно 27 радова - сврстани су следећи радови: с. 17/р. 1; с. 18/р. 14, 16, 18, 22, 23; с. 19/р. 25, 33-35; с. 20/р. 37, 40, 4; с. 21/р. 1, 2, 4-7, 10; с. 22/р. 13-15, 18, 20; с. 23/р. 28, 1. У категорију М23 - укупно осам радова - сврстани су следећи радови: с. 10/р. 2; с. 20/р. 2, 3; с. 22/р. 16, 21; с. 23/р. 2; с. 24/р. 13; с. 26/р. 5. У категорију М23 - укупно 23 рада - сврстани су следећи радови: с. 14/р. 2; с. 15/р. 12; с. 17/р. 12; с. 18/р. 17, с. 21/р. 11; с. 22/р. 17, 22, 23; с. 23/р. 27, 1, 3, 4; с. 24/р. 5, 8, 10-12, 15, 16, 18, 19; с. 26/р. 8; с. 28/р. 30. Радови обима =< две стране сврстани су у категорије М25 - укупно четири рада (с. 10/р. 7; с. 15/р. 7; с. 16/р. 19, 26) М26 - укупно два рада (с. 22/р. 19, 24) и М27 - укупно два рада (с. 10/р. 1; 14/р. 1). Кандидат има седам резултата категорије М28(б) (пријава, страна 25), један резултат категорије М31 (с. 25/р. 1/М31) 52 резултата категорије М33 (с. 25/р. 1/М33, 2; с. 26/р. 3, 4, 6, 10-13, 15, 16; с. 27/р. 17-20, 22, 24-27; с. 28/р. 28, 29, 32-38; с. 29/р. 39-49; с. 30/р. 50-10) 13 резултата категорије М34 (с. 31/р. 1-6, 8-11; с. 32/р. 12, 13,15) и четири резултата категорије М51 (с. 24/р. 6, 9, 14, 17). Из категорије М80, Кандидат има по један резултат из категорија М81 и М85 (с. 33/р. 1,2) и шест резултата из категорије М86 (с. 33/р. 1/М96, 2/М96; с. 34/р. 3-6) док из категорије М90 има три резултата из категорије М91 (с. 33/р. 1-3). Индикатор научне компетентности Кандидата износи:

ink=8M14+M17+49M21(a)+56M21+7M22+8M23+23M24+4M25+2M26+2×M27+7M28(б)+M31+52M33+13M34+
+4M51+M81+M85+6M86+3M91=8×4+3+49×10+56×8+27×5+8×3+23×3+4×1,5+2×1+2×0,5+7×2,5+3,5+52×1+
+13×0,5+4×2+8+2+6×1+3×16=1361,5, што је за 19,5 пута већа вредност од минималне вредности ink_{min}=70 (за петогодишњи период) потребне за избор у звање научног саветника (Правилник).

Најбољих пет научних резултата (с. 4/р. 1-5; р.1: https://www.science.org/doi/10.1126/science.1112014; р. 2: https://doi.org/10.1038/nbt.3344; р. 3: https://doi.org/10.1038/nbt.2777; р. 4: https://doi.org/10.1186/1471-2105-9-S1-S18; р. 5: https://doi.org/10.1016/j.ipm.2022.103167) чији су кратки описи дати у пријави (страна 4) цитирани су укупно 3776 пута (Scopus). Кандидат је руководио тимовима за реализацију имунолошких (р. 1) и биоинформатичких (р. 2) истраживања, или је био идејни творац и реализатор истраживања (р.3-р.5).

Подаци о патентима дати су у одељку 1. реферата. Кандидат је био руководилац девет и учествовао у реализацији 18 међународних пројеката (пријава: стране 43-45). Рецензензирао је више од 100 међународних истраживачких пројеката финансираних од стране фондација/институција из више технолошки развијених земаља (САД, Канада, ЕУ, Велика Британија, Русија, Аустралија, Израел, Сингапур-пријава: стране 36 и 49) као и више од 10 рецензија за водеће светске научне часописе (пријава: стране 35 и 36). Кандидат је учествовао у уређивању и био члан уредништва пет реномираних научних часописа, док тренутно уређује један и члан је уредништва једног реномираног научног часописа (пријава: страна 25). Био је члан и руководилац научно-стручних друштава (пријава: стране 36 и 49). Осим тога, био је председник програмског одбора четири међународне научне конференције (МНК), председник организационог одбора пет МНК, секретар програмског одбора четири МНК, секретар организационог одбора четири МНК, члан програмског одбора 29 МНК и члан организационог одбора две МНК (пријава: стране 45-48).

Кандидат је формирао две научне лабораторије на универзитетима у САД и Кини, као и две истраживачке групе на универзитетима у Сингапуру и Кини (пријава: страна 37). Подаци о руковођењу научноистраживачким институцијама/организационим целинама, дати су на страни 48 пријаве.

Висока цитираност, као и вредност Хиршовог фактора (дато у одељку 1. реферата) последица су, пре свега, високог квалитета радова, али и чињенице да су доминантне истраживачке области Кандидата (биоинформатика, вештачка интелигенција) у претходне три деценије, као и данас, врло актуелне и динамичне, што резултира и релативно високом продукцијом радова на глобалном нивоу. О изврсности научноистраживачких резултата Кандидата упечатљиво сведоче признања наведена у одељку 5. реферата.

3. Инжењерске реализације

Кандидат је учествовао у развоју више од 20 софтверских система и база података, као и пет прототипова производа (пријава: страна 3). Руководио је израдом свих пет репрезентативних инжењерских реализација, које се односе на информатичке системе примењене у вакцинологији, имунологији, алергологији, микробиологији (с. 4/р. 1-3) анализи пандемија свињског грипа и коронавируса COVID 19 (с. 4/р. 4) као и за мониторинг здравственог стања кардиолошких пацијената на кућној нези (с. 4/р. 5). Нова решења, заснована на машинском учењу, која је Кандитат осмислио и чији је концепт у пракси верификован, данас се, широм света, користе за анализу вируса и развој вакцина. Нека од тих решења примењују се за развој метода за лечење рака и у дијагностици кардиоваскуларних болести.

Значај инжењерских реализација (укључујући и патенте) иако је реч врхунском светском нивоу, мањи је од значаја научних резултата. Оријентациони процентуални однос доприноса: 60% наука, 40% инжењерство.

4. Остали показатељи успеха

Кандидат је држао наставу на свим нивоима академских студија (пријава: стране 40-42) и био ментор 11 докторанада који су дисертације одбранили на реномираним светским универзитетима. Најбољи међу њима данас су редовни/ванредни професори на универзитетима Оксфорд, Бостон, Дански технички универзитет и Универзитет науке и технологије Доха Катар. Ментор је и седам докторских дисертација чија је израда у току. Осим тога, био је и ментор 14 мастер радова и 27 дипломских радова (пријава: стране 37-40).

5. Признања и награде

2005-Почасни докторат Semmelweis University School of Medicine, Будимпешта (основан 1769. године)
https://semmelweis.hu/research/scientific-excellence/honorary-doctors/
https://semmelweis.hu/hirek/files/regi_honlap/inst207/honoriscausacv.pdf

2022-Уврштен на каријерну ранг листу “World's Top 2% Scientists by Stanford University” из области имунологија/биоинформатика/клиничка медицина https://doi.org/10.17632/btchxktzyw.6)

2021, 2022-Сврстан међу најцитираније кинеске научнике из области информатике и информатичких технологија https://research.nottingham.edu.cn/en/persons/vladimir-brusic и https://www.sohu.com/a/545366484_467302

На основу свих релевантних квантитативних и квалитативних показатеља, Комисија закључује да Кандидат у свему испуњава критеријум за избор иностраних чланова, прописан чланом 7. Правилника о избору чланова АИНС.

МИШЉЕЊЕ И ПРЕДЛОГ КОМИСИЈЕ

На основу претходно наведеног образложења, вредновања и оцена у овом реферату, као и прегледаног комплетног материјала у поднетој пријави, Комисија констатује да проф. др Владимир Брусић у потпуности испуњава све критеријуме Правилника о избору чланова АИНС и предлаже да се изабере за иностраног члана.

Београд, 03.08. 2024. год.

Комисија за писање реферата
одређена одлуком Председништва АИНС на седници 2.7. 2024. године

проф. др Срђан Бошњак, редовни члан АИНС

проф. емеритус Александар Седмак, редовни члан АИНС

академик Милош Којић, редовни члан АИНС

Предлог – Владимир Брусић

На седници АИНС - одељења машинских наука 25.6.2024. године, на основу спроведеног гласања, кандидат Владимир Брусић добио је потребан број гласова да буде предложен за учествовање на конкурсу за избор нових чланова АИНС 2024 за иностраног члана.
Број чланова Радног састава одељења износио је 26, присуствовало је 17 чланова, а кандидат је добио 14 гласова.

Секретар одељења машинских наука

Проф. емеритус Александар Седмак

Сагласност кандидата за конкурисање.

Ја, Владимир Брусић, сагласан сам са предлогом да будем кандидован за иностраног члана АИНС-а.

Владимир Брусић

Владимир Брусић је редовни професор Универзитета у Нотингему Нингбо Кина (University of Nottingham Ningbo China) од 2018, где је директор Лабораторије за Паметну Медицину (Laboratory for Smart Medicine). Професор Брусић је ост. Рођен је 19. маја 1959. године у Београду од оца Божидара и мајке Славенке. Дипломирао је на Машинском факултету Универзитета у Београду на одсеку Медицинско Машинство 1983. године. Магистрирао је на Центру за Мултидисциплинарне Студије Универзитета у Београду 1987. године на одсеку Биомедицинско Инжењерство. Професионалну каријеру и студије је наставио у иностранству од 1987. године. Завршио је следеће студије: Graduate Diploma in Computer Science, La Trobe University, Melbourne, Australia (1991); Master of Applied Science in Information Technology (MAppSci), Royal Melbourne Institute of Technology, Melbourne, Australia (1996); Doctor of Philosophy (PhD), La Trobe University, Melbourne, Australia. Topic: Knowledge Discovery from Immunological Databases; Master of Business Administration (MBA), Rutgers University, New Jersey, USA (Singapore Campus), 2001.

Академска звања: Ванредни Професор: University of Canberra, Canberra, Australia 2002-2005; Nanyang Technological University, Singapore (2003-2005); National University of Singapore, Singapore (2003-2007). Професор Брусић је имао академско звање Редовни Професор: Professor of Bioinformatics and Database Management, University of Queensland, Brisbane, Australia (2005-2009); Bioinformatics Graduate Program, Boston University, Boston MA (2007-2009), Nazarbayev University, Astana, Kazakhstan (2015-2017). Професор Брусић је био Principal Associate in Medicine, Harvard Medical School, Boston, MA, USA (2006-2014).

Научне и наставне административне позиције: Професор Брусић је био бројним: шеф лабораторије, шеф истраживачког одсека, директор бионформатике, директор магистарских студија, директор центра, декан, члан научно-истраживачког већа, и председник универзитетске комисије за етику.

Наставне активности и промоција науке: предавао је на на свим нивоима студија - ментор у 11 завршених и седам активних докторских дисертација, 14 завршених магистарских радова, и 27 завршених дипломских радова. Учествовао је на више од 150 међународних конференција, као предавач, предавач по позиву, главни предавач, члан организационог одбора, организатор, или организатор секције. Био је или је тренутно члан уређивачког одбора међународних часописа, укључујући Frontiers in Immunology, Frontiers in Artificial Intelligence, BMC Bioinformatics, Briefings in Bioinformatics, Immunome Research, Journal of Immunological Methods, PLoS ONE

Развојно-истраживачке активности: објавио је више од 240 научних радова (Скопус h-индекс 48), три патента и шест патентних пријава, више од 20 софтверских система и база података, и пет прототипова производа. Истраживачки рад Професора Брусића је финансиран са више од 20 милиона америчких долара (еквивалентна вредност) из Сингапура, Сједињених Држава, Кине, и Европске Заједнице.

Награде и признања: Почасни Докторат, Doctor honoris causa, (Dr h.c., Honorary Doctorate), Semmelweis University School of Medicine, Budapest, Hungary, 2005. Професор Брусић је у горњих 2% међу научницима у области вештачке интелигенције и обрадама слике, клиничкој медицини, и имунологији по рангирању Станфорд/Елсевир (2022 и 2023). По Елсевир/Шангај рангирању (2021-2023), Професор Брусић је у групи најцитиранијих кинеских истраживача.

Контакт подаци: ORCID 0000-0003-0523-5266, e-mail: vladimir.brusic@nottingham.edu.cn , мобилни: +86-134-8423-3271.

Проф. др Владимир Б. Брусић, дипл. маш. инж.

Најбољих 5 научних доприноса

1. Carninci P, Kasukawa T, Katayama S, Gough J, Frith MC, Maeda N, …, Brusic V., …, Hayashizaki Y. The transcriptional landscape of the mammalian genome. science. 2005 Sep 2;309(5740):1559-63. ИФ: 30.927, М21а, цитата: 2922. *Ова студија описује свеобухватан каталог локација за почетак и прекид транскрипције и анализу претходно неидентификованих комплементарних ДНА изведених из генома миша*.

2. Shukla SA, Rooney MS, Rajasagi M, Tiao G, Dixon PM, Lawrence MS, Stevens J, Lane WJ, Dellagatta JL, Steelman S, Sougnez C. Comprehensive analysis of cancer-associated somatic mutations in class I HLA genes. Nature biotechnology. 2015 Nov;33(11):1152-8. ИФ: 18.263, М21а, цитата: 470. *Описује компјутерски систем који омогућава тачно лоцирање алела класе I ХЛА-А, Б и Ц гена и накнадно откривање мутација у овим генима користећи аа утврђене алеле као референце*.

3. Brusic V, Rudy G, Honeyman G, Hammer J, Harrison L. Prediction of MHC class II-binding peptides using an evolutionary algorithm and artificial neural network. Bioinformatics (Oxford, England). 1998;14(2):121-30. ИФ: 7.2, М21а, цитата: 249. Прва примена вештачке интелигенције у детекцији МХЦ класе II циљаних вакцина.

4. Miotto O, Heiny AT, Tan TW, August JT, Brusic V. Identification of human-to-human transmissibility factors in PB2 proteins of influenza A by large-scale mutual information analysis. BMC Bioinformatics 2008 Feb (Vol. 9, pp. 1-18). ИФ: 4.084, М21, цитата: 85. *Анализа PB2 протеинских секвенци вируса грипа А, за идентификовање компоненти адаптације на пренос са човека на човека, и реконструкција историје њихових мутација.*

5. Wang W, Li X, Qiu X, Zhang X, Brusic V, Zhao J. A privacy preserving framework for federated learning in smart healthcare systems. Information Processing & Management. 2023 Jan 1;60(1):103167. ИФ: 7.466, М21а, цитата: 29. *Паметни рачунарски систем за размену физиолошких података, назван FRESH, који се заснива на "federated learning" и "ring signature defense" одбрани од сајбер напада.*

Најбољих 5 инжењерских доприноса

1. Брусић Владимир са сарадницима. Систем за предикцију циљева имунског одговора на протеине патогена и рака за помоћ развоја вакцина. Систем се састоји од базе података, предиктивних алата, и контролног модула. Овај систем је широко коришћен у иммунологији и вакцинологији.

2. Брусић Владимир са сарадницима. Овај систем садржи стотине хиљада ДНК проба које представљају комплетан сет од 1.610 клинички релевантних ХЛА класе I варијанти. Експеримент са доказом концепта укључио је 21 узорака крви, 18 линија ћелија и више контрола.

3. Брусић Владимир са сарадницима. Систем и метод за брзо формирање база података са придруженим аналитичким алатима. Овај систем је помогао формирању десетине база података за имунологију, алергологију, и микробиологију.

4. Брусић Владимир са сарадницима. Математички модел са аналитичким софтвером за анализу ширења епидемије и примену епидемиолошких мера. Примењен у пракси на анализу пандемије свињског грипа и коронавируса КОВИД-19.

5. Брусић Владимир са сарадницима. Прототип "Smart Health Home" - систем за посматрање здравља у кућној нези са применом у кардиологији. Прототип "Смарт Хеалтх Хоме" - систем за посматрање здравља у кућној нези са применом у кардиологији. Комерцијални пројекат Универзитета у Нотингаму Нингбо Кина.

РЕЗИМЕ РЕЗУЛТАТА

Име и презиме, датум и место рођења, завршен факултет, место и датум: Владимир Брусић, 19.05.1959. Београд, Универзитет у Београду, Машински факултет, 1983.
Тема Докторског рада, ментор, датум и факултет: Knowledge Discovery from Immunological Databases, John Zeleznikow, 2001, La Trobe University, Melbourne, Australia.
Запослење: најдуже, садашње (институција и врста посла) Најдуже: Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, 1989-1998. Старији програмер - биоинформатичар. Садашње: University of Nottingham Ningbo China, Нингбо, Кина, 2018-, Редовни Професор, Директор Лабораторије за Паметну Медицину (Laboratory for Smart Medicine).
Област научног и инжењерског рада и ORCID идентификатор: Медицинске технологије, Паметни системи, ORCID 0000-0003-0523-5266
Редовни професор 2005

1. Научно-истраживачки резултати:

M20	**РАДОВИ МЕЂУНАРОДНОГ ЗНАЧАЈА**	**M21a**	**M21**	**M22**	**M23**	**M28**
		>30	**>20**	**>10**	**>10**	**5**

M30	**МЕЂУНАРОДНИ СКУПОВИ**	**M31**	**M32**	**M33**	**M34**
		>10		**>60**	**>20**

M50	**УРЕЂИВАЊЕ ЧАСОПИСА**	**M51**	**M52**
		6	
M70	**МАГИСТАРСКА И ДОКТОРСКА ТЕЗА**	**M71**	**M72**
		2	**1**

M80	**ТЕХНИЧКА РЕШЕЊА**	**M81**	**M82**	**M83**	**M84**	**M85**	
		3				**1**	

M90	**ПАТЕНТИ**	**M91**	**M92**	**M93**	**M94**	**M96**	**M97**
		3				**2**	**5**

2. Цитираност (по SCOPUS-u):

2.1 Укупан број цитата 12733

2.2 Број хетероцитата 10591

2.3 Број цитираних радова на SCOPUS-у 203

2. 4 Цитираност у књигама ?? , дисертацијама ?? и значајним иностраним публикацијама ??

2.5 Хиршов индекс (h-фактор) према броју хетероцитата: 48

3. **Документоване инжењерске реализације** (техничко-технолошки пројекти примењени у пракси) (потребе привреде подразумевају и инфраструктурне и јавне објекте)

Р.Б.	Активност	Главни	Извођачки	Технички	Остали
1.	Урађени значајни пројекти за потребе привреде				
2.	У потпуности изведени већи пројекти за потребе привреде (број пројеката је део од пројеката под 1.)				
3.	Број ревизија (рецензија) привредних пројеката		Број експертских оцена		
4.	Руковођење: Изградњом привредних објеката		Радом прив. објеката		
5.	Остало: (нпр. Извођење других пројеката, и др.)				

4. Остали показатељи успеха

1.	Награде међународне	2
2.	Награде домаће	1
3.	Уређивачки одбори часописа	7

4.	Рецензије ISI-SCI-IF радова	>100
5.	Рецензије међународних пројеката	>50
6.	Чланство у научним и стр. удруж.	2

5.1 Формирање: 1 Лабораторија **2** 2 Истраживачке групе **2**

3 Нови истраживачки правци **2** 4 Центара изврсности

5.2 Менторство: Др **18**

5.3 Педагошки рад: 1 Број уџбеника 2 Збирка задатака

3 Број курсева: 10 Основне студије **4** Мастер студије **8** Др студије

5.4 Међународна сарадња: 1 Руковођење пројектима **9** 2 Учешће на пројектима **20**

3 Студијски боравак у иностранству дужи од 2 месеца **4**

5.5 Одржавање научних скупова: 1 Председник програмског **4** 3 Секретар програмског **5** 5 Члан програмског **29**

2 /организационог одбора **5** 4 /орг. одбора **4** 6/орг. одбора **2**

6. Организација научног рада 6.1 Руковођење: Домаћим пројектима

6.2 Руковођење у Министарству науке: 1 Министар ____2 Држ.сек. ____3 Помоћник ____4 Предс.МНО ____

6.3 Руковођење у Инжењерској комори: 1 Председник ____2 Предс.Скупштине ____3 Предс.Комисије ____

6.4 Активности у Министарству науке: 1 Матични одбори ____2 Вођење комисија ____

6.5 Руковођење научним институцијама: 1 Институти **1** 4 Лабораторија **2**

2 Факултети **1** 5 Катедре **1**

3 Одсеци, смерови **2**

6.6 Руков. и актив. у другим друштвима: 1 Научним **9** 2 Стручним **4**

Датум

19.06.2024

Потпис кандидата

Vladimir Brusic is a Full Professor at the University of Nottingham Ningbo China since 2018, where he is the Director of the Laboratory for Smart Medicine. Professor Brusic was born on May 19, 1959 of father Bozidar and mother Slavenka. He received a degree of Graduated Mechanical Engineer from the Faculty of Mechanical Engineering (Department of Medical Mechanical Engineering) University of Belgrade in 1983. He got a degree of Master of Biomedical Engineering from the Centre of Multidisciplinary Studies (Department of Biomedical Engineering), University of Belgrade in 1987. He continued his career and studies abroad after 1987. He completed further studies: Graduate Diploma in Computer Science, La Trobe University, Melbourne, Australia (1991); Master of Applied Science in Information Technology (MAppSci), Royal Melbourne Institute of Technology, Melbourne, Australia (1996); Doctor of Philosophy (PhD), La Trobe University (2001), topic Knowledge Discovery from Immunological Databases; Master of Business Administration (MBA), Rutgers University, New Jersey, USA (Singapore Campus), 2001.

Academic appointments: Associate professor at the University of Canberra, Canberra, Australia 2002-2005; Nanyang Technological University, Singapore (2003-2005); National University of Singapore, Singapore (2003-2007). Professor Brusic held the Full Professor positions: Professor of Bioinformatics and Database Management, University of Queensland, Brisbane, Australia (2005-2009); Professor at the Bioinformatics Graduate Program, Boston University, Boston MA (2007-2009) and Professor of Computer Science at Metropolitan College, Boston University, Boston MA (2010-current); Professor at the Nazarbayev University, Astana, Kazakhstan (2015-2017). Professor Brusic was a Principal Associate in Medicine at Harvard Medical School, Boston, MA, USA (2006-2014).

Scientific and administrative positions: Professor Brusic had numerous appointments including Laboratory Head, Head of Research Department, Director of Bioinformatics, Director of Graduate Program, Director of Research Center, Dean, member of Research Committee, and Head of Ethics Committee (university level).

Teaching and promotion of science. Наставне активности и промоција науке: He taught at all levels of university studies (undergraduate, MSc, and PhD levels). He was a supervisor/advisor in 11 completed and seven ongoing PhD studies, 14 completed MSc studies, and 27 completed undergraduate dissertsations. He participated in more than 150 international conferences as speaker, invited speaker, keynote speaker, member of the organizing committee, organizer, or head of section. He has been a member of editorial committees of international journals, including Frontiers in Immunology, Frontiers in Artificial Intelligence, BMC Bioinformatics, Briefings in Bioinformatics, Immunome Research, Journal of Immunological Methods, and PLoS ONE, among others.

Research and development: He published more than 240 scientific publications (SCOPUS h-index of 48), published three patents and six patent applications, more than 20 software systems and databases, and five prototype products. He received more than 20 million US dollars (equivalent) in research funding from Singapore, USA, China, and European Comission..

Awards: Doctor honoris causa, (Dr h.c., Honorary Doctorate), Semmelweis University School of Medicine, Budapest, Hungary, 2005. Professor Brusic was ranked within top 2% of scientists in the area of Artificial Intelligence and Image Processing, clinical medicine, and immunology by Stanford/Elsevier ranking for life-long contribution (2022 and 2023). Professor Brusic is ranked as highly-cited Chinese scientist by Elsevier/Shanghai ranking (2021, 2022, and 2023).

Contact: ORCID 0000-0003-0523-5266, e-mail: vladimir.brusic@nottingham.edu.cn or brusicv@gmail.com , мобилни: +86-134-8423-3271 or +1-617-910-8058.

7. БИБЛИОГРАФИЈА са проширеном биографијом

Испред прегледа који се наставља на следећој страни (а може и одмах на истој овој) даје се:

Линкови на научне и друге публикације, као и биографске податке:

ОБАВЕЗНИ:

према КоBSON-у: не постоји линк доступан кандидату

према SCOPUS-у: https://www.scopus.com/authid/detail.uri?authorId=7005279260

12, 788 Citations by 10, 158 documents; 241Documents; 49 h-index

68.2% International collaboration; 6.1% Academic-Corporate collaboration;

Since 2013: 29.9% (20 documents) Documents in top citation percentiles; 56.1% (23 documents) Documents in top 25% journals by CiteScore percentile

према WoS-SCI листи: https://www.webofscience.com/wos/author/record/1153718

243 Publications indexed in Web of Science, 240 Web of Science Core Collection publications, 2 Preprints

46 H-Index; 240 Publications; 11, 735 Sum of Times Cited; 9, 644 Citing Articles; 486 Sum of Times Cited by Patents; 353 Citing Patents

према Google Scholar листи: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=brusic&oq=

19063 citations; 5058 citations since 2019; 61 h-index; 28 h-index since 2019;

ОПЦИОНИ:

на месту запослења: https://research.nottingham.edu.cn/en/persons/vladimir-brusic

Библиографија свих радова налази се у наставку.

ИЗБОРИ АИНС 2024.
Одељење машинских наука
иностран члан

Владимир Брусић

БИБЛИОГРАФИЈА

I НАУЧНО-ИСТРАЖИВАЧКИ РЕЗУЛТАТИ

M10 Монографије, монографске студије, тематски зборници, лексикографске и картографске публикације међународног значаја

Књига M12

1. Schonbach C.; Ranganathan S.; Brusic V. Immunoinformatics, 2008, Immunoinformatics, 9780390000000, 1-200DOI=10.1007/97, 8-0-387-72968-8, Springer New York, Book, Scopus, cited by 7.

M14 Поглавља у књизи M12

1. Brusic V.; Koh J.L.Y. Genetic databases, 2004, Mammalian Genomics, 411-427, DOI=NA, Book chapter, Scopus, cited by 0, M14
2. Koh J.L.Y.; Brusic V. Database warehousing in bioinformatics, 2005, Bioinformatics Technologies, 45-62, DOI=10.1007/3-540-26888-X_3, Springer Berlin Heidelberg, Book chapter, Scopus, cited by 2, M14
3. Lee B.T.K.; Brusic V. Allergen bioinformatics, 2008, Immunoinformatics, 9780390000000, 91-107, DOI=10.1007/978-0-387-72968-8_5, Book chapter, Scopus, cited by 1, M14
4. DeLuca D.S.; Marina O.; Ray S.; Zhang G.L.; Wu C.J.; Brusic V. Data Processing and Analysis for Protein Microarrays, 2011, Methods in Molecular Biology, 723, 337-347, DOI=10.1007/978-1-61779-043-0_21, Book chapter, Scopus, cited by 15, M14
5. Zhang G.L.; DeLuca D.S.; Brusic V. Database Resources for Proteomics-Based Analysis of Cancer, 2011, Methods in Molecular Biology, 723, 349-364, DOI=10.1007/978-1-61779-043-0_22, Book chapter, Scopus, cited by 6, M14
6. Sun J.; Zhang G.L.; Brusic V. Systems biology approaches to new vaccine development, 2015, Post-genomic Approaches in Drug and Vaccine Development, 323-346, DOI=NA, Book chapter, Scopus, cited by 0, M14
7. Olsen L.R.; Sun J.; Simon C.; Zhang G.L.; Brusic V. Genomics in vaccine development, 2015, Post-genomic Approaches in Drug and Vaccine Development, 179-203, DOI=NA, Book chapter, Scopus, cited by 0, M14
8. Lyu M.; Xin L.; Jin H.; Chitkushev L.T.; Zhang G.; Keskin D.B.; Brusic V. Protocol for Classification Single-Cell PBMC Types from Pathological Samples Using Supervised Machine Learning, 2023, Methods in Molecular Biology, 2673, 53-67, DOI=10.1007/978-1-0716-3239-0_4, Book chapter, Scopus, cited by 0, M14

M20 – Радови међународног значаја (подаци су извучени из SCOPUS-а и са SCIMAGO сајта, КоBSON није доступан кандидату - класификација научних радова представља приближно стање у КоБСОН-у)

M21a Радови у међународним часописима изузетних вредности

1. Baum H.; Brusic V.; Choudhuri K.; Cunningham P.; Vergani D.; Peakman M., MHC molecular mimicry in diabetes, 1995, Nature Medicine, v. 1(5), 388-388, DOI=10.1038/nm0595-388, Letter, Scopus, cited by 22, IF=28.114, Q1, M21a
2. Brusic V.; Rudy G.; Honeyman M.; Hammer J.; Harrison L., Prediction of MHC class II-binding peptides using an evolutionary algorithm and artificial neural network, 1998, Bioinformatics, v. 14(2), 121-130, DOI=10.1093/bioinformatics/14.2.121, Article, Scopus, cited by 250, IF=NA, Q1, M21a
3. Daniel S.; Brusic V.; Caillat-Zucman S.; Petrovsky N.; Harrison L.; Riganelli D.; Sinigaglia F.; Gallazzi F.; Hammer J.; Van Endert P.M., Relationship between peptide selectivities of human transporters associated with antigen processing and HLA class I molecules, 1998, Journal of Immunology, v. 161(2), 617-624, DOI=NA, Article, Scopus, cited by 94, IF=7.059, Q1, M21a
4. Honeyman M.C.; Brusic V.; Stone N.L.; Harrison L.C., Neural network-based prediction of candidate T-cell epitopes, 1998, Nature Biotechnology, v. 16(10), 966-969, DOI=10.1038/nbt1098-966, Article, Scopus, cited by 163, IF=3117, Q1, M21a
5. Zarour H.M.; Storkus W.J.; Brusic V.; Williams E.; Kirkwood J.M., NY-ESO-1 encodes DRB1*0401-restricted epitopes recognized by melanoma-reactive CD4+ T cells, 2000, Cancer Research, v. 60(17), 4946-4952, DOI=NA, Article, Scopus, cited by 112, IF=8.541, Q1, M21a
6. Zarour H.M.; Kirkwood J.M.; Kierstead L.S.; Herr W.; Brusic V.; Slingluff Jr. C.L.; Sidney J.; Sette A.; Storkus W.J., Melan-A/MART-151-73 represents an immunogenic HLA-DR4-restricted epitope recognized by melanoma-reactive CD4+ T cells, 2000, Proceedings of the National Academy of Sciences of the United States of America, v. 97(1), 400-405, DOI=10.1073/pnas.97.1.400, Article, Scopus, cited by 142, IF=10.499, Q1, M21a
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M21 или M22 Радови у врхунским међународним часописима (M21) или у истакнутим међународним часописима (M22). SCOPUS има податке за часописе само од 2011, тако да није могуће раздвојити раније радове на две категорије.

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M22 или M23 Радови у истакнутим међународним часописима (M22) или у међународним часописима (M23) . SCOPUS има податке за часописе само од 2011, тако да није могуће раздвојити раније радове на две категорије.

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M28 – Уређивање међународног научног часописа

Раније

1. Section Editor – PloS ONE
2. Section Editor – Journal of Immunological Methods
3. Associate Editor – Frontiers in Immunology
4. Member of the editorial board - BMC Bioinformatics
5. Member of the editorial board - Immunome Research

Активан

6. Associate Editor – Frontiers in Artificial Intelligence
7. Member of the editorial board - Briefings in Bioinformatics

M30 – Међународни научни скупови

M31 – Предавања по позиву са међународних скупова штампана у целини

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M33 – Саопштења са међународних скупова штампана у целини

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M34 – Саопштења са међународних скупова штампана у изводу

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15. Zhang P, Georgiou CA, **Brusic V**. Elemental metabolomics–linking environmental, food, nutrition and health sciences. In Book of Abstracts 10th International Conference Bioinformatics of Genome Regulation and Structure\Systems Biology, Novosibirsk, Russia, 2016, pp 347. (Abstract), M34

M70 – Магистарске и докторске тезе

M71 – Магистарски радови

1. Владимир Брусић. Прилог изучавању хода са пасивном натколеном протезом помоћу математичког модела. Магистар Биомедицинског Инжењерства, 1986. Одсек за Биомедицинско Инжењерство, Центар за Мултидисциплинарне Студије Универзитета у Београду.

2. Vladimir Brusic. Application of genetic search in derivation of matrix models of peptide binding to MHC molecules. Master of Applied Science in Information Technology, School of Computer Science and Information Technology, RMIT University, Melbourne, Australia, 1997.

M72 – Докторска дисертација

1. Vladimir Brusic. Knowledge Discovery from Immunological Databases. Doctor of Philosophy (PhD) dissertation, La Trobe University, Melbourne, Australia, 2001.

M80 – Техничка решења

M81 – Ново техничко решење (метода) примењено на међународном нивоу

1. Информатитчка инфраструктура за високодимензионалне анализе имунског система човека. Пројекат је урађен за Националне Институте за Здравство (National Institutes of Health, NIH), САД. Развијена инфраструктура се користи за развој имунотерапија, вакцина, и лекова за инфективне болести, рак, и имунолоске поремећаје. Инфраструктура је описана у раду:

   Brusic V.; Gottardo R.; Kleinstein S.H.; Davis M.M.; Hafler D.A.; Quill H.; Palucka A.K.; Poland G.A.; Pulendran B.; Reinherz E.L.; Stuart K.D.; Togias A., Computational resources for high-dimensional immune analysis from the Human Immunology Project Consortium, 2014, Nature Biotechnology, v. 32(2), 146-148, DOI=10.1038/nbt.2777, Letter, Scopus, cited by 56, IF=12.682, Q1, M21a.

M85 – Novo tehničko rešenje u fazi realizacije (M85).

1. Брусић Владимир са сарадницима. Прототип "Smart Health Home" - систем за посматрање здравља у кућној нези са применом у кардиологији. "Smart Health Home" комерцијални пројекат Универзитета у Нотингаму Нингбо Кина. Ово решење је заштићено патентима и патентним пријавама описаним у секцији M90.

M90 – Патенти

M91 Регистрован патент на међународном нивоу

1. US patent US 9205144 B2, Dec 8, 2015 – granted. Brusic V, Olsen LR, Reinherz EL, Zhang GL: Identification of conserved peptide blocks in homologous polypeptides.
2. US patent US 8969254 B2, Mar 3, 2015 – granted. Reinherz EL, Brusic V, Zhang GL, Keskin DB, Deluca DS, Lin HH: Oligonucleotide array for precise HLA typing.
3. Chinese Patent (Invention) No. 202111548078.3, June 28, 2024 – granted. Brusic V, Zhang X: A heart rate state assistant assessment system, heart health monitoring system, method, storage medium and terminal based on consumer devices.

M96 Пријављен патент на међународном нивоу

1. Chinese Patent (Invention) Application, submitted to the Patent Office, Feb 2023. Vladimir Brusic, Yinglun Li. A method and system for detecting sleep apnea by machine learning with time-series heart rate data from consumer wearable sensors.
2. Chinese Patent (Invention) Application 202211733216.X, 2022.05.05 – passed the initial round of assessment. Vladimir Brusic, Xiang Zhang. System, method, and platform for transfer of sensitive data from data owner to data users.

3. Chinese Patent (Invention) Application, 202210966810.7, 2022.08.12 – passed the initial round of assessment. Giampaolo Buticci, Kun Shang, Vladimir Brusic, Yaping Zhang. An intelligent optic-fibre based monitoring and control system for optimized operations of wind power systems.
4. Chinese Patent (Invention) Application – 202210961294.9, 2022.08.11 – passed the initial round of assessment. Giampaolo Buticci, Kun Shang, Vladimir Brusic, Yaping Zhang. An optic-fiber temperature and reliability measurement system for power electronics components.
5. Chinese Patent (Invention) Application, 202210507701.9. May 11, 2022 – passed the initial round of assessment. Kun Shang, Vladimir Brusic, Michael Galea, Yaping Zhang. A system and method for measuring internal temperature of electrical machine windings using fibre-optic sensors and machine learning.
6. Chinese Patent (Invention) Application No. 202111327609.6, Oct 11, 2021, passed the initial round of assessment. Brusic V, Cai T: A method, system, and terminal for trading commodity assets.

II ЦИТИРАНОСТ

Подаци о цитираности према SCOPUS-у (на дан 19.06.2024. године):

2.1	Укупан број цитата	**12733**
2.2	Број хетероцитата	**10591**
2.3	Број цитираних радова на SCOPUS-у	**203**
2.4	Цитираност у књигама, дисертацијама и значајним иностраним публикацијама -	**није позната**
2.5	Хиршов индекс (h-фактор) према броју хетероцитата:	**48**

III ИНЖЕЊЕРСКЕ РЕАЛИЗАЦИЈЕ

1. Урађени значајни пројекти за потребе привреде (пројекти за извођење, главни, идејни, студије)

1. Информатитчка инфраструктура за високодимензионалне анализе имунског система човека. Пројекат је урађен за Националне Институте за Здравство (National Institutes of Health, NIH), САД. Развијена инфраструктура се користи за развој имунотерапија, вакцина, и лекова за инфективне болести, рак, и имунолоске поремећаје. Инфраструктура је описана у раду:
   Brusic V.; Gottardo R.; Kleinstein S.H.; Davis M.M.; Hafler D.A.; Quill H.; Palucka A.K.; Poland G.A.; Pulendran B.; Reinherz E.L.; Stuart K.D.; Togias A., Computational resources for high-dimensional immune analysis from the Human Immunology Project Consortium, 2014, Nature Biotechnology, v. 32(2), 146-148, DOI=10.1038/nbt.2777, Letter, Scopus, cited by 56, IF=12.682, Q1, M21a.

IV ОСТАЛИ ПОКАЗАТЕЉИ УСПЕХА

4.1. Награде међународне

1. 2005 – Почасни докторат из медицинских наука Doctor honoris causa, (Dr h.c., Honorary Doctorate), Semmelweis University School of Medicine, Budapest, Hungary.

2. 2022, 2023, 2024 – Станфорд/Елсевиер ранг за 2021, 2022, 2023: горњих 2% научника (за животно дело) у свету у области вештачке интелигенције и процесуирању слика, клиничкој медицини, и имунологији. Stanford/Elsevier ranking 2021, 2022, 2023: top 2% scientists top 2% scientists (career-long) in the World in the fields Artificial Intelligence and Image Processing, Clinical Medicine, and Immunology.

4.2. Награде домаће

1. 2022, 2023, 2024 – Елсевиер/Шангајска листа ранг за 2021, 2022, 2023, сврстан у групу најцитиранијих кинеских научника. Elsevier/Shanghai Ranking for 2021, 2022, 2023 listed among Most Cited Chinese Researchers

4.3. Уређивачки одбор часописа

Раније

1. Section Editor – PloS ONE
2. Section Editor – Journal of Immunological Methods
3. Associate Editor – Frontiers in Immunology
4. Member of the editorial board - BMC Bioinformatics
5. Member of the editorial board - Immunome Research

Активан

6. Associate Editor – Frontiers in Artificial Intelligence
7. Member of the editorial board - Briefings in Bioinformatics

4.4. Рецензије радова са ISI-SCI-IF листе

Више од 100 рецензија у следећим часописима: Acta Biotheoretica, BioTechniques, BMC Bioinformatics, BMC Genomics, BMC Structural Biology, Briefings in Bioinformatics, Bioinformatics, Bulletin of Mathematical Biology,

Cancer Research, Current Pharmacogenomics, Genomics, Graft, Expert Review of Vaccines, Drug Discovery Today, Immunogenomics, Immunome Research, In Silico Biology, International Immunology, Journal of Applied Bioinformatics, Journal of Biomedicine and Biotechnology, Journal of Bioinformatics and Computational Biology, Journal of Computational Chemistry, Journal of Immunological Methods, Journal of Immunology, Journal of Molecular Biology, Journal of Proteome Research, Letters in Peptide Science, Nature Biotechnology, Nucleic Acids Research, Parasite Immunology, Pattern Recognition Letters, Plant Science, PLoS Biology, PLoS Computational Biology, PLoS Genetics, PLoS Medicine, PLoS Neglected Tropical Diseases, PLoS ONE, Proteins: Structure, Function, and Bioinformatics, Protein Science, Pharmacogenomics, Trends in Immunology, Trends in Microbiology, Tuberculosis, Vaccine, Virus Research.

4.5. Рецензије међународних пројеката

Рецензент је преко 100 међународних пројеката, од 2001, за следеће фондације или институције

1. Qatar National Research Foundation
2. Cancer Research UK
3. Horizon 2020 – European Commission
4. Terry Fox New Frontiers Program – Project Program Grant reviewer
5. PRMRP – American Institute of Biological Sciences
6. P2RMIS – Peer Reviewed Medical Research Program
7. SkTech-MIT (Skolkovo, Russia) review panel
8. Frontier Research Center, Osaka University
9. AITRC (Allergy, Immunology and Transplantation Research Committee Panel (NIH)
10. National Institutes of Health
11. European Commission FP7 review
12. Israel Science Foundation
13. US-Israel Binational Science Foundation
14. Broad Medical Research Program, the Broad Foundation
15. Medical Research Council UK
16. The Istituto Nazionale di Alta Matematica (INdAM), Italy
17. The Netherlands Organisation for Health Research and Development (ZonMw) / Netherlands Genomics Initiative (NGI)
18. Private Practice Fund, The Canberra Hospital, Australia
19. Canadian Institutes of Health Research
20. National Medical Research Council, Singapore

4.6. Чланство у научним и стручним удружењима

Раније

1. International Immunomics Society
2. IEEE Computer Society

V ДОПРИНОСИ РАЗВОЈУ УСЛОВА НАУЧНО-ИСТРАЖИВАЧКОГ РАДА

5.1.1. Формирање лабораторије

1. Професор Брусић је директор Лабораторије за Паметну Медицину (Laboratory for Smart Medicine, University of Nottingham Ningbo China), коју је успоставио 2021.
2. Лабораторије за Здравствену Информатику на Бостонском Универзитету 2013 године. The Health Informatics Lab (HILab) is part of the Master of Science in Health Informatics and the Health Informatics certificate at the Department of Computer Science, Metropolitan College, Boston University. Computer Science, Metropolitan College, Boston University, Boston MA. http://met-hilab.org/

5.1.2. Формирање истраживачке групе

1. Професор Брусић је оснивач и бивши шеф истраживачке групе (и истоименог одсека) Групе за проналажење знања (Knowledge Discovery Group, Institute for Infocomm Research, Singapore) коју је успоставио 1999.
2. Професор Брусић је оснивач и шеф истраживачке групе Сензори, сензорске мреже, и инструментације (Sensors, Sensor Networks, and Instrumentation Research Group) у Нингбу (University of Nottingham Ningbo China), коју је успоставио 2019.

5.1.3. Нови истраживачки правци

1. Imunoinformatics
2. Smart Health Home

5.2. Менторство

5.2.1. Ментор докторске дисертације

1. 2022-on Sen Lin “Single cell RNA expression in mouse”. University of Nottingham Ningbo China.
2. 2021-on Xin Lin “Machine learning methods for the analysis of SCT Data”. University of Nottingham Ningbo China.
3. 2021-on Tian Jia “Automated approaches to glacial landform mapping”. University of Nottingham Ningbo China.
4. 2020-on Minjie Lyu “Machine learning for diagnostic applications of single cell transcriptomes”. University of Nottingham Ningbo China.
5. 2020-on Tianhong Cai “Machine Learning and Pattern Recognition for Assessment of Currency Risks”. University of Nottingham Ningbo China.
6. 2020-on Joshua Lai “Monitoring pregnancy using wearables”. University of Nottingham Ningbo China.
7. 2020-on Yinglun Li “Monitoring heart disease using wearables”. University of Nottingham Ningbo China.
8. 2019-2024 Xiang Zhang “Monitoring sport activities using wearables”. University of Nottingham Ningbo China.

9. 2019-2023 Jiahui Zhong “Single cell transcriptomics”. University of Nottingham Ningbo China.
10. 2018-2023 Shuyu Li “Development and Implementation of indoor positioning system in healthcare”. University of Nottingham Ningbo China.
11. 2019-2022 Kun Shang “Thermal monitoring of electric machines using fibre-optic sensors with machine learning algorithms”. University of Nottingham Ningbo China.
12. 2012-2014 Lars R. Olsen “The prognostic, diagnostic, and therapeutic potential of tumor antigens”. Copenhagen University, Denmark. (Now Associate Professor at Department of Drug Design and Pharmacology, University of Copenhagen)
13. 2006-2010 Asif M. Khan. PhD supervisor (Epitope based vaccines for viral infections), Department of Microbiology, National University of Singapore. (Now Dean at Perdana University Graduate School of Medicine, Malaysia)
14. 2005-2009 Menaka Rajapakse, PhD supervisor (Applications of genetic algorithms in bioinformatics). School of Computer Engineering, Nanyang Technological University, Singapore.
15. 2005-2009 Olivo Miotto, PhD supervisor, (Biological knowledge aggregation) Department of Biochemistry, National University of Singapore. (now Senior Senior Scientist and Fellow, Centre for Genomics and Global Health, Nuffield Department of Medicine, University of Oxford, UK)
16. 2004-2008 Zhang Guanglan PhD supervisor (Soft computing applied to immunoinformatics). School of Computer Engineering, Nanyang Technological University, Singapore (now Assistant Professor at Boston University)
17. 2006 Songsak Tongchusak, PhD co-supervisor (Analysis of C. albicans virulence factors). Mahidol University, Bangkok, Thailand. (now Senior Research Scientist in Siam Biosciences, Thailand)
18. 2004-2006 Paul Tan Thiam Joo, PhD supervisor (Structure-function analysis of scorpion toxins) Department of Biochemistry, National University of Singapore. (Now Laboratory Director at Cordlife Group Ltd, Singapore)

5.2.2. Ментор мастер рада

1. 2016-2017 Kamilya Sidikova, Nazarbayev University, Astana, Kazakhstan. “Clinical Scales for Assessing the Risk of Autism”.
2. 2016-2017 Feruza Kaiyr, Nazarbayev University, Astana, Kazakhstan. “Study of evolution of HLA genes using pattern analysis”
3. 2013-2014 Simon Koplev, Danish Technical University, Lyngby, Denmark (research done at Dana-Farber Cancer Institute). (Now Bioinformatician at Icahn School of Medicine at Mount Sinai, NYC, USA).
4. 2013 Jason Lucas, Boston University – online student. (Now PhD student).
5. 2013 Jon Long, Boston University – online student. (Farmacist in New York).
6. 2012-2013 Ulrich Kudahl “Development of generic workflows and tools for application in vaccine development”, Danish Technical University, Lyngby, Denmark (research done at Dana-Farber Cancer Institute). (Now PhD student at University of Cambridge, UK).
7. 2011-2012 Christian Simon “Data mining system for the development of universal influenza vaccine”, Danish Technical University, Lyngby, Denmark (research done at Dana-Farber Cancer Institute). (Now PhD student at Danish Technical University).
8. 2011 Lars R. Olsen “An Integrated Computational Framework for Vaccine Target Discovery in Flavivirus spp.” MSc, Danish Technical University, Lyngby, Denmark (research done at Dana-Farber Cancer Institute). (Now Assistant Professor at Technical University of Denmark)
9. 2010 Esma Dilek, MSc (thesis) “Probe design optimization of HLA microarray by filtering uninformative probes”, MET Computer Science, Boston University. (now Director at Istanbul Metropolitan Municipality, Istanbul, Turkey)

10. 2009 Heiny Ainling Tan, MSc (research) “Analysis of immune responses to influenza virus”, Department of Microbiology, National University of Singapore. (now Manager, Industry Liaison Office at National University of Singapore, Singapore)
11. 2005 Asif M. Khan. MSc (research) “Viral genome screening for targets of immune responses”, Department of Biochemistry, National University of Singapore. (now Assistant Professor and the Director of Bioinformatics Center at Perdana University, Malaysia)
12. 2002 Yu Kun, MSc (research) “Knowledge discovery in HIV immunology”, School of Computer Science, National University of Singapore. (now Research Scientist at Eli Lilly and Company, Indianapollis, Indiana, USA)
13. 2001 Qua Chern Jin, MSc (thesis) “Kidney transplant database interface”, Singapore MIT Alliance, High performance computing, National University of Singapore.
14. 2001 Tam Soh Khum, MSc (thesis) “Prediction of kidney transplant outcomes”, Singapore MIT Alliance, High performance computing, National University of Singapore. (now Assistant Director, DSTA, Singapore)

5.2.3. Ментор дипломског рада

1. 2021 Wan Leng Patricia Wong, Final year project dissertation “Big data analytics for assessing patterns of air pollution”. Distinguished Final Year Project Award, School of Computer Science, University of Nottingham Ningbo China.
2. 2021 Haonan Chen, Final year project dissertation “Medical Blockchain for smart health home”. School of Computer Science, University of Nottingham Ningbo China.
3. 2021 Jiawei Wu, Final year project dissertation “Design and implementation of a financial blockchain for portfolio management”. School of Computer Science, University of Nottingham Ningbo China.
4. 2021 Xiaotian Xia, Final year project dissertation “Data repository for single cell analytics” . School of Computer Science, University of Nottingham Ningbo China.
5. 2020 Xin Lin, Final year project dissertation “Machine learning methods for single cell data analysis using single cell RNA expression”. Distinguished Final Year Project Award, School of Computer Science, University of Nottingham Ningbo China. Progressed to PhD studies, UNNC scholarship.\
6. 2020 Xiaoman Ding, Final year project dissertation “Technical analysis of multiple financial assets”. School of Computer Science, University of Nottingham Ningbo China.
7. 2020 Zihui Luo,Final year project dissertation “Analysis of image photoplethysmography (IPPG) signals”. School of Computer Science, University of Nottingham Ningbo China.
8. 2020 Xuting Wu, Final year project dissertation “Multi sensor data management”. School of Computer Science, University of Nottingham Ningbo China.
9. 2020 Qian Chen, Final year project dissertation “Monitoring and analysis of sleep using sensors”. School of Computer Science, University of Nottingham Ningbo China.
10. 2019 Bangrui Zheng, Final year project dissertation “Analytics tools for single cell gene expression in mouse”. School of Computer Science, University of Nottingham Ningbo China.
11. 2019 Haoguo Wu, Final year project dissertation “Machine learning tools for prediction of cell subtypes from single cell gene expression”. School of Computer Science, University of Nottingham Ningbo China.
12. 2019 Kehan Bian, Final year project dissertation “Methods for analysis of large matrices”. School of Computer Science, University of Nottingham Ningbo China.
13. 2019 Tianhong Cai, Final year project dissertation “Visualization of currency trends”. School of Computer Science, University of Nottingham Ningbo China. Progressed to PhD studies, UNNC scholarship.
14. 2019 Yinglun Li, Final year project dissertation “Analysis of heart rate variation in healthy heart”. School of Computer Science, University of Nottingham Ningbo China. Progressed to PhD studies, UNNC scholarship.

15. 2018 Chenxi Han, Final year project dissertation “Monitoring heart disease using mobile applications”. School of Computer Science, University of Nottingham Ningbo China.
16. 2018 Jinghan Liu, Final year project dissertation “Analysis of large ICU database for prediction of sepsis”. School of Computer Science, University of Nottingham Ningbo China.
17. 2018 Jingxian Liu, Final year project dissertation “Classification of single cell types from PBMC gene expression patterns”. School of Computer Science, University of Nottingham Ningbo China.
18. 2018 Xiang Zhang, Final year project dissertation “Single cell Big Data processing and summary analytics”. School of Computer Science, University of Nottingham Ningbo China. Progressed to PhD studies, UNNC scholarship.
19. 2018 Zibo Zhang, Final year project dissertation “Single cell transcriptome data analytics for early disease detection”. School of Computer Science, University of Nottingham Ningbo China. Progressed to PhD studies, UNNC scholarship.
20. 2016 Ilyas Kabimoldayev, Undergraduate thesis “The role of chemical elements in modification of molecular pathways implicated in autism: a bioinformatics study”, School of Science and Technology, Nazarbayev University.
21. 2005 Lee Xuinjian, Kenneth, Honours thesis “Comparison of cytomegalovirus and elongation factor 1 alpha promoters to aid in the development of DNA vaccines”, Department of Microbiology, National University of Singapore.
22. 2005 Goh Wen Bin, Wilson, Honours thesis “TumorAntigen: a platform for cancer antigen analysis”, Department of Microbiology, National University of Singapore. (now PhD Student at imperial College, London, UK)
23. 2004 Heiny Ainling Tan, Honours thesis “The antigenic diversity analysis of complete viral genome of influenza A virus”, Department of Microbiology, National University of Singapore. (now Manager, Industry Liaison Office at National University of Singapore, Singapore)
24. 2003 Chia Chia Tan, Honours thesis “Allergen database”, Department of Biological Sciences, National University of Singapore.
25. 2002 Mohd. Asif Khan. Honours thesis “Characterisation of snake toxins”, Department of Biological Sciences, National University of Singapore. (now Assistant Professor and the Director of Bioinformatics Center at Perdana University, Malaysia)
26. 2001 Paul Tan Thiam Joo. Honours thesis “Characterisation of scorpion toxins”, Department of Biological Sciences, National University of Singapore. (now Senior Scientist at Health Sciences Authority, Singapore)
27. 2000 Fabian Lim, Honours thesis “Neural networks for peptide binding prediction”, School of Computer Science, National University of Singapore. (now Pipeline Engineer at McDermott International Inc, Singapore)

5.3. Педагошки рад

5.3.3. Наставни предмети

2023 Instructor of record: Boston University, MET Computer Science, graduate course CS580 (Health Informatics) face-to-face – 10 students

2023 Instructor of record: Boston University, MET Computer Science, graduate course CS580 (Health Informatics) online – 20 students

2022 Module convenor (instructor on record): School of Computer Science, undergraduate course COMP 3056 Ethics for Computing Professionals – 94 students.

2021 Module convenor (instructor on record): School of Computer Science, undergraduate course COMP 3056 Ethics for Computing Professionals – 112 students.

2020 Module convenor (instructor on record): School of Computer Science, undergraduate course COMP 3056 Ethics for Computing Professionals – 126 students.

2019 Module convenor (instructor on record): School of Computer Science, undergraduate course COMP 3056 Ethics for Computing Professionals – 92 students.

2018 Module convenor (instructor on record): School of Computer Science, undergraduate course COMP 3056 Ethics for Computing Professionals – 65 students

2017 Instructor of record (full course): Nazarbayev University, School of Science and Technology (Biology), Biology Department, undergraduate course BIOL399 (Internship) – 10 students

2017 Instructor: Nazarbayev University, School of Medicine (Master of Public Health), PUBH522 (Advanced Analytical Epidemiology) – 25 students

2016 Instructor (one module): Nazarbayev University, School of Medicine, Medicine (Endocrine Disorders Course) – 18 students

2016 Instructor (one module): Nazarbayev University, School of Medicine (Master of Public Health), PUBH531 (Emerging Infectious Disease) – 25 students

2016 Instructor of record: Nazarbayev University, School of Science and Technology, Biology Department, undergraduate course BIOL350 (Introduction to Bioinformatics with Lab) – 21 students

2016 Instructor of record: Nazarbayev University, School of Science and Technology, Biology Department, undergraduate course BIOL399 (Internship) – 2 students

2015 Instructor of record: Nazarbayev University, School of Science and Technology, Biology Department, undergraduate course BIOL399 (Internship) – 15 students

2014 Instructor of record: Boston University, MET Computer Science, graduate course CS570 (Biomedical Sciences and Health Information Technology) online – 24 students

2013 Instructor of record: Boston University, MET Computer Science, graduate course CS580 (Health Informatics) online – 20 students

2013 Instructor of record: Boston University, MET Computer Science, graduate course CS570 (Biomedical Sciences and Health Information Technology) online – 38 students

2013 Instructor of record: Boston University, MET Computer Science, graduate course CS570 (Biomedical Sciences and Health Information Technology) – 17 students

2012 Curriculum development graduate course CS570 (Biomedical Sciences and Health Information Technology) online

2012 Curriculum development graduate course CS580 (Health Informatics) online

2012 Instructor of record: Boston University, MET Computer Science, graduate course CS570 (Biomedical Sciences and Health Information Technology) – 9 students

2012 Instructor of record: Boston University, MET Computer Science, graduate course CS580 online (Health Informatics) – 27 students

2012 Instructor of record: Boston University, MET Computer Science, graduate course CS795 (Directed Study) – 3 students

2011 Instructor of record: Boston University, MET Computer Science, graduate course CS580 (Biomedical Informatics) – 9 students.

2010 Instructor of record: Boston University, MET Computer Science, graduate course CS580 (Biomedical Informatics) – 17 students.

2010 Student Supervisor, Special course: Advanced Immunoinformatics. Danish Technical University (Institute for Systems Biology).

2009 Instructor of record: Boston University, MET Computer Science (graduate course CS580 Biomedical Informatics) – 16 students.

2008 Lecturer, graduate seminar "Translational Bioinformatics: From Molecules to Vaccines" Graduate Program in Bioinformatics, Boston University. Sep 15, 2008.

2008 Guest Lecturer, undergraduate seminar "Development of Vaccines and Immunotherapeutics" taught as a joint course between Brown University and University of Rhode Island (Bio 160/ BIOL1600, URI/MTC 594). Feb 6, 2008.

2008 Guest Lecturer, graduate seminar "Bioinformatics Applications for Analysis of Viruses and Cancer Antigens", University of Rhode Island, IDeA Network of Biomedical Research Excellence, Seminar Series: Fall 2007 - Spring 2008. Feb 5, 2008.

2007 Co-Director, First Immunomics Summer School (Computer Modelling, from Molecules to Clinics) Catania, 24 August - 03 September, 2007, 40 students.

2007 Guest Lecturer, Brown University, Providence RI, USA (Bio 160, Development of Vaccines) – 20 students.

2006 Instructor of record: Nanyang Technological University, Singapore (BI6129 Special Topics graduate module – Bioinformatics Discovery) – 20 students.

2005 Instructor of record: Nanyang Technological University, Singapore (BI6129 Special Topics graduate module – Bioinformatics Discovery) – 20 students.

2005 One-day Course on "Bioinformatics and Autoimmunity" May 6, 2005 - Potenza, Italy, Organizers: Vladimir Brusic, Marcella Attimonelli and Paolo Riccio, 50 attendees.

2004 Invited lecturer (Databases and Warehouses for Bioinformatics) New Zealand Summer School of Bioinformatics, Knowledge Engineering and Discovery Research institute, Auckland, New Zealand, February 2004.

2004 Instructor of record: Nanyang Technological University, Singapore (BI6129 Special Topics graduate module – Bioinformatics Discovery) – 20 students.

2004 Lecturer. National University of Singapore - Essential Bioinformatics and Biocomputing module (LSM2104 undergraduate module) – 290 students.

2003 Invited tutorial. Biological Data Warehousing. Knowledge Discovery and Data Mining in Biological Databases. The Tenth International Conference on Intelligent Systems for Molecular Biology (ISMB-2003) Brisbane Australia June 29-July 3, 2003.

2003 Lecturer and Curriculum co-Developer. National University of Singapore - Essential Bioinformatics and Biocomputing module (LSM2104 undergraduate module) – 300 students.

2002 Guest Lecturer and Curriculum co-Developer. National University of Singapore - Essential Bioinformatics and Biocomputing module (LSM2104) – 300 students.

5.4 Међународна сарадња

5.4.1. Руковођење пројектима

1. 2019-2021 Ningbo Service Industry S&T Programme, Internet+ Smart Triage Tool and its application in Ningbo Hospital (project code: 2019F1028), 3 years, 200,000 RMB (co-PI Vladimir Brusic)
2. 2016-2018 NU Research University Development Program, Kazakhstan Autism Spectrum Disorders registry – USD 250,000 (PI Vladimir Brusic)
3. 2013-2017 NIH, Expression signatures of TB-specific memory responses within the human lung. Identify the transcriptional signatures, analyse genes significantly altered, gene sets and pathways – USD 348,925 (co-PI Vladimir Brusic, PI Richard Silver)
4. 2013-2014 Pfizer, Development of next-generation immunogenicity prediction tools - USD 144,900 (PI Vladimir Brusic).
5. 2013-2014 NIH sub-award 1U01AI089859-02x: Bioinformatics Infrastructure for HIPC: Coordination of Implementation Phase - USD 193,895.
6. 2012-2013 NIH sub-award 1U01AI089859-02x: Bioinformatics Infrastructure for HIPC: Design and Oversight Phase - USD 193,895 (PI Vladimir Brusic).
7. 2011-2012 NIH sub-award 1U01AI089859-02x: Comparison and standardization of advanced HLA typing methods - USD 297,049 (PI Vladimir Brusic).
8. 2011-2012 NIH sub-award 1U01AI089859-02x: Bioinformatics Infrastructure for HIPC: Planning and Initiation Phase, USD 270,498 (PI Vladimir Brusic).
9. 2010-2011 NIH sub-award 1U01AI089859-01k: Human KIR variation profiling by microarray, USD 175,000 (PI Vladimir Brusic).

5.4.2. Учешће на пројектима

1. 2023-2024 Horizontal funding from Lengyan Inc. (300,000 RMB) Smart Medicine – Smart Health Home (to UNNC, PI Vladimir Brusic).
2. 2019-2024 Ningbo Service industry S&T Programme (3315 Innovation Talent Grant), Superdrive, 5 years, 5 million RMB. (co-Investigator Vladimir Brusic, 370,000 RMB)
3. 2010-2015 NIH Research Grant 1U01AI090043-01: Crossprotective CTL against Influenza. Key Investigator (Total of 6,500,000 – PI Ellis Reinherz).
4. 2006-2009 Core funding grant (Cancer Vaccine Center, Dana-Farber Cancer Institute) USD 400,000 per annum for the Bioinformatics Core.
5. 2006-2008 IST-04-028069-STP. Commission of the European Communities, Information Society Technologies, Specific Targeted Research Project, ImmunoGrid - The European Virtual

Human Immune System Project, Project Number: 028069, € 203,244.00 (of the total € 1,951,042). V. Brusic was the proposer and scientific coordinator of the project.

6. 2006 Support for MARIE Autoimmunity Course Budapest 11-Oct-2006. European Science Foundation (€ 8,977).
7. 2004-2008 Contract Award No. HHSN266200400085C (NO1-AI40085) – Large Scale Antibody and T-Cell Epitope Discovery Program (under RFP-NIH-NIAID-DAIT-04-39). The contract is valued at USD 509,609 (of total USD 7,279,857, project director Tom August of Johns Hopkins University).
8. 2004 Core funding grant (Institute for Infocomm Research) S$2,000,000 (US$1,170,000) for the Knowledge Discovery Department (one year).
9. 2003-2004 Academic Research Fund, National University of Singapore. R-154-000-190-112, Mapping alternate splice variants onto protein structure using biocomputing methods (one year). Co-investigator with PI Shoba Ranganathan. Total amount S$70,780 (US$41,600).
10. 2003-2007 NIH research grant 1 U19 AI56541-01, a multi-project grant. Project 1, Computational identification of dengue virus T-cell epitopes. – Project leader for Project 1, US$290,000 (five years). (Overall project principal investigator Tom August, Johns Hopkins Medical School)
11. 2003 Analysis of SARS Coronavirus (CoV) Infection in Singapore Population Cohorts: Asymptomatic SARS CoV Infection, Immunological Relationship with nonSARS CoV and the SARS CoV Serotype (BMRC grant 3/1/55/20/282), S$ 40,000 (US$ 23,500) for computational analysis of SARS CoV (one year). With Johns Hopkins Singapore – PI Tom August, total award amount S$173,967 (US$100,000)
12. 2003 Core funding grant (Institute for Infocomm Research) S$1,700,000 (US$1,000,000) for the Knowledge Discovery Department (one year).
13. 2002 Core funding grant (Laboratories for Information Technology) S$700,000 (US$411,800) for the Discovery Systems Laboratory (one year).
14. 1999-2002 S$727,750 (US$428,000) research and development grant from the National Science and Technology Board of Singapore for the project Computational Immunology (three years).
15. 1998-1999 Co-investigator on the United States Public Health Service Grant (R01 AI36478). "T Cell Immunity to Preerythrocytic P. falciparum" (investigates targets of immune responses in malaria infection). Principal investigator Prof. James W. Kazura, Case Western Reserve University, Cleveland, OH, USA.
16. 2006-2008 IST-04-028069-STP. Commission of the European Communities, Information Society Technologies, Specific Targeted Research Project, ImmunoGrid - The European Virtual Human Immune System Project, Project Number: 028069, € 203,244.00 (of the total € 1,951,042). V. Brusic was the proposer and scientific coordinator of the project.
17. 2006 Support for MARIE Autoimmunity Course Budapest 11-Oct-2006. European Science Foundation (€ 8,977).
18. 2004-2008 Contract Award No. HHSN266200400085C (NO1-AI40085) – Large Scale Antibody and T-Cell Epitope Discovery Program (under RFP-NIH-NIAID-DAIT-04-39). The contract is valued at USD 509,609 (of total USD 7,279,857, project director Tom August of Johns Hopkins University).

2003-2007 NIH research grant 1 U19 AI56541-01, a multi-project grant. Project 1, Computational identification of dengue virus T-cell epitopes. – Project leader for Project 1,

19. US$290,000 (five years). (Overall project principal investigator Tom August, Johns Hopkins Medical School)
20. 1998-1999 Co-investigator on the United States Public Health Service Grant (R01 AI36478). "T Cell Immunity to Preerythrocytic P. falciparum" (investigates targets of immune responses in malaria infection). Principal investigator Prof. James W. Kazura, Case Western Reserve University, Cleveland, OH, USA.

5.4.3. Студијски боравак у иностранству дужи од 2 месеца

1. 1986 Graduate research exchange program scholarship (one year), University of Montreal, Canada.
2. 1982 Undergraduate research exchange program scholarship, M.E.M. Institute for Biomechanics, University of Bern, Switzerland.
3. 2017-18 Visiting Professor, Kumamoto University, Kumamoto, Japan.
4. 2002-03 Visiting Professor, Canberra Clinical School, The Canberra Hospital and University of Canberra, Canberra, Australia.

5.5. Одржавање научних скупова

Професор Брусић је учествовао на многобројним научним скуповима као организатор и члан програмског одбора.

5.5.1. Председник програмског одбора 3

1. 2nd HIPC Biostatistics and Bioinformatics Workshop, Yale University, New Haven CT, June 16, 2011. (Co-chair)
2. 1st HIPC Biostatistics and Bioinformatics Workshop, Mayo Clinic, Rochester MN, June 6-7, 2011. (Co-chair)
3. 2006 International Congress of Immunogenomics and Immunomics (BCII 2006), Oct 8-12, 2006, Budapest, Hungary, (Congress Co-chair)
4. 3rd Asia-Pacific Bioinformatics Conference (APBC 2005), Jan 17-21, 2005 Singapore (Chair organizing committee) 15th Workshop on Genome Informatics (GIW 2004), Dec 13-15, 2004 Yokohama, Japan. (Co-Chair Program Committee).

5.5.2. Председник организационог одбора 3

1. 4th Immunoinformatics and Computational Immunology Workshop (ICIW 2013), Washington, DC, USA. September 22-25, 2013. (Co-chair, Organizing Committee).
2. 3rd Immunoinformatics and Computational Immunology Workshop (ICIW 2012), Orlando, FL, U.S.A. October 7-10, 2012. (Co-chair, Organizing Committee)
3. 2nd Immunoinformatics and Computational Immunology Workshop (ICIW 2011), Chicago IL, August 1, 2011 (Co-chair, Organizing Committee)
4. Singapore Immunoinformatics Symposium From databases to vaccines, March 1st 2004, Institute for Infocomm Research, Singapore. (Organiser)
5. Bioinformatics and Protein Interactions Workshop Jun 10-12, 2002, Singapore. (Conference Chair).

5.5.3. Секретар програмског одбора 2

1. 1st Baltic Conference Immunological Modelling: Theory and Practice, Rīga Stradiņš University, Rīga, Latvia, 13 - 15 May 2015. (Session Chair and Invited Speaker) "Big Data Analtics for Vaccine Development"
2. 11th International Conference on Bioinformatics (InCoB 2012), Bangkok, Thailand Oct 3-5, 2012. (Member, Program Committee, Track Chair)
3. 4th World congress of Cellular and Molecular Biology, October 7-12, 2005, Poitiers, France (Member International Scientific Committee, Symposium Chair)
4. Immunoinformatics: Bioinformatics Strategies for Better Understanding of Immune Function. Novartis Foundation Symposium 254, Oct 8-10, 2002 London, UK. (Invited Plenary Speaker, Conference Co-convenor)

5.5.4. Секретар организационог одбора 2

1. Ninth International Conference on Bioinformatics (InCoB 2010), September 26-28, Tokyo, Japan (Member, Program Committee, Track Chair).
2. 1st International Conference on Basic and Clinical ImmunoGenomics. October 3-7, 2004, Budapest, Hungary (Invited speaker, session chair).
3. 1st International Immunoinformatics Symposium: Immunology Meets Bioinformatics, Feb 26-27, 2004, Yokohama, Japan. (Session Chair, Invited Speaker).
4. 14th Workshop on Genome Informatics, Dec 15-17, 2003 Yokohama, Japan. (Session Chair).

5.5.5. Члан програмског одбора

1. Genome Informatics Workshop/International Conference on Bioinformatics, (GIW/InCoB 2015), Odaiba, Tokyo, Japan, September 21-23, 2015. (Member, Program Committee, Speaker).
2. 13th International Conference on Bioinformatics, (InCoB 2014), Sydney, Australia, July 31 – Aug 2, 2014. (Member, Program Committee, Speaker).
3. The 4th International Conference on Computational Systems-Biology and Bioinformatics (CSBio), November 7-9, Seoul, Korea, 2013. (Member, Program Committee)

4. 2013 ASE/IEEE Internationl Conference on Biomedical Computing, Washington DC, USA. September 8-14, 2013. (Member, Program Committee)
5. 11th Asia Pacific Bioinformatics Conference APBC 2013. Vancouver, BC, Canada, January 21-23 2013. (Member, Program Committee).
6. 3rd International Conference on Computational Systems-Biology and Bioinformatics (CSBio), Bangkok, Thailand Oct 3-5, 2012. (Member, Program Committee)
7. 10th Asia Pacific Bioinformatics Conference APBC 2013. Melbourne, Australia, January 17-19 2012. (Member, Program Committee)
8. 9th Asia Pacific Bioinformatics Conference APBC 2013. APBC 2011. Incheon, Korea, January 11-14 2011. (Member, Program Committee)
9. 1st International Conference on Computational Systems-Biology and Bioinformatics (CSBio), Bangkok, Thailand Nov 3-5, 2010. (Member, Program Committee)
10. IEEE Congress on Evolutionary Computation (IEEE CEC 2010). May 18-21, Trondheim, Norway (Member, Program Committee)
11. 8th International Conference on Bioinformatics (InCoB 2009), September 7-11, 2009, Singapore. (Member, Program Committee).
12. 2008 International Conference on Biomedical Engineering and Informatics (BMEI 2008), May 27-30, 2008, Sanya, Hainan, China. (Member, Program Committee).
13. The 6th Asia Pacific Bioinformatics Conference APBC 2013. APBC2008. Kyoto, Japan, January 14-17, 2008. (Member, Program Committee)
14. Sixth International Conference on Bioinformatics (InCoB 2007), 27 - 30 August 2007, HKUST, Hong Kong, Hanoi, Vietnam and Nansha, China. (Member, Program Committee).
15. 2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, April 1-5, 2007, Honolulu, Hawaii. (Member, Program Committee).
16. 2nd International Conference on Biomedical and Pharmaceutical Engineering 2006 (ICBPE 2006), Dec 2-4, 2006, Singapore. (Member, Program Committee).
17. 2006 Workshop on Pattern Recognition in Bioinformatics (PRIB 2006), August 20, 2006, Hong Kong. (Member, Program Committee)
18. PAKDD 2006, 10th Pacific-Asia Conference on Knowledge Discovery and Data Mining, BioDM2006 Workshop, Apr 9-12, 2006, Singapore. (Workshop Member, Program Committee)
19. The 20th IEEE International Conference on Advanced Information Networking and Applications (AINA 2006), April 18-20, 2006, Vienna University of Technology, Vienna, Austria. (Member Program Committee).
20. 16th International Conference on Genome Informatics, December 19-21, 2005, Yokohama, Japan. (Member, Program Committee)
21. 2nd International Immunoinformatics Symposium, March 7-9, 2005, Boston, USA. (Member, Scientific Program Committee). 2nd European Workshop on Data Mining and Text Mining for Bioinformatics. Sep 24, 2004, Pisa, Italy. (Member Program Committee)
22. International Workshop on Knowledge Discovery in BioMedicine (KDbM-04). (PRICAI 2004 Workshop 6) Aug 9, 2004, Auckland, New Zealand. (Member Program Committee).
23. 12th International Conference on Intelligent Systems for Molecular Biology and 3rd European Conference on Computational Biology (ISMB ECCB 2004), July 31-August 4 2004, Glasgow, UK. (Member, Program Committee).
24. 9th International Conference on Database Systems for Advanced Applications (DASFAA 2004). 24-27 February, 2004, Jeju Island, Korea. (Member Program Committee).
25. 7th European Conference on Principles and Practice of Knowledge Discovery in Databases ECML/PKDD-2003, Workshop on Data Mining and Text Mining for Bioinformatics, September 22-26, Dubrovnik, Croatia. (Member Program Committee).

26. 8th International Conference on Database Systems for Advanced Applications (DASFAA 2003). 26 - 28 March, 2003, Kyoto, Japan. (Member Program Committee).
27. 13th Workshop on Genome Informatics, Dec 16-18, 2002 Tokyo, Japan. (Member Program Committee).
28. 12th Workshop on Genome Informatics, Dec 17-19, 2001 Tokyo, Japan. (Member Program Committee).
29. Symposium: Trends in Knowledge Discovery from Databases, Singapore, 29th June 1999. (Speaker, Program Committee Member).

5.5.6. Члан организационог одбора

1. The 2nd ISV Pre-conference Computational Vaccinology Workshop (ICoVax 2012), Shanghai, China, October 13, 2012. (Member Organizing Committee)
2. Joint Singapore-Canada workshop The Interface of Biology with Information Technology, March 17-18, 2003, Singapore (Member Organising Committee, Invited Plenary Speaker)

VI ОРГАНИЗАЦИЈА НАУЧНОГ РАДА

6.5. Руковођење научним институцијама

6.5.1. Институти

2015-2017, Director of Bioinformatics Center, Nazarbayev University

6.5.2. Факултети

2014-2015 Декан – Dean, School of Science and Technology, Nazarbayev University, Astana, Kazakhstan.

6.5.3. Одсеци, смерови

2012-2014 Associate Director, Health Informatics Graduate Program, Metropolitan College, Boston University, Boston MA.

2003-2005 Head, Knowledge Discovery Department, Institute for Infocomm Research (former KRDL, LIT), Singapore. The department had 42 staff and students and the annual budget of 1.2 million USD

6.5.4. Лабораторија

2006-2014 Director of Bioinformatics, Cancer Vaccine Centre, Dana Farber Cancer Institute, Harvard Medical School, Boston, MA.

1998-2005 Laboratory Head (Discovery Systems Laboratory), Institute for Infocomm Research (former KRDL, LIT), Singapore.

6.5.5. Катедре

2018-2023, Li Dak Sum Chair Professor of Computer Science, University of Nottingham Ningbo China

6.6 Руковођење и активности у другим друштвима:

6.6.1 Научним

2010 - 2013. Member, International Scientific Advisory Board, Immunology Frontier Research Center (IFReC), Osaka University, Osaka Japan.

2011 -2012 Panel Member (Smart Health and Wellbeing Program), National Science Foundation.

2005 – 2010 Board Member, Asia-Pacific Bioinformatics Network (APBioNet)

2004 – 2008 International Scientific Advisory Board Member, Knowledge Engineering and Discovery Research Institute (KEDRI), Auckland University of Technology, Auckland, New Zealand

2008 – 2010. President, International Immunomics Society.

2003 – 2007 Vice-President of the International Immunomics Society.

2003 – 2006 Board Member, Association of Asian Societies of Bioinformatics.

2004 – 2005, Vice-president, Association for Medical and Bio Informatics, Singapore.

2003 – 2004, Honorary Secretary, Association for Medical and Bio Informatics, Singapore.

6.6.2 Стручним

2014 - 2015 Technical Expert. European Comision Horizon 2020. （Horizon 2020 program)

2010 - 2011 Technical Expert. European Comission FP7.

2006 – 2007 Advisory Board Member, EuroPhysiome, A Roadmap to the Virtual Physiological Human.

2004 – 2005 Technical Advisor for the Engineering Science in Medicine (ESiM) Techscan Panel, Singapore (advising Ministry of Trade and Industry).

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Потпис кандидата