NSF BIOGRAPHICAL SKETCH

NAME: Obradovic, Zoran

POSITION TITLE & INSTITUTION: Professor, Computer and Information Sciences, Temple University

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
University of Belgrade	Belgrade, Serbia	Applied Math, Computer and Information Sciences	BS	1985
University of Belgrade	Belgrade, Serbia	Applied Math, Computer and Information Sciences	MS	1987
Pennsylvania State University	State College, PA	Computer Science	PHD	1991

(b) APPOINTMENTS

2013 - present   L.H. Carnell Professor of Data Analytics, Temple University

2013 - present   Professor (secondary appointment), Statistical Sciences Department, Temple University

2000 - present   Director, Data Analytics and Biomedical Informatics Center, Temple University

2000 - present   Professor, Computer and Information Sciences, Temple University

1991 - 2000   Assistant/Associate Prof., Electrical Eng. and Comp Sci, Washington State University

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Zhou F, Gillespie A, Gligorijevic D, Gligorijevic J, Obradovic Z. Use of disease embedding technique to predict the risk of progression to end-stage renal disease. J Biomed Inform. 2020 Apr 15;105:103409. PubMed PMID: 32304869.

2. Cao XH, Han C, Glass LM, Kindman A, Obradovic Z. Time-to-event estimation by re-defining time. J Biomed Inform. 2019 Dec;100:103326. PubMed PMID: 31678589.

3. Gligorijevic J, Gligorijevic D, Pavlovski M, Milkovits E, Glass L, Grier K, Vankireddy P, Obradovic Z. Optimizing clinical trials recruitment via deep learning. J Am Med Inform Assoc. 2019 Nov 1;26(11):1195-1202. PubMed PMID: 31188432.

4. Cao XH, Stojkovic I, Obradovic Z. A robust data scaling algorithm to improve classification accuracies in biomedical data. BMC Bioinformatics. 2016 Sep 9;17(1):359. PubMed PMID: 27612635; PubMed Central PMCID: PMC5016890.

5. Ljubic B, Abdel Hai A, Stanojevic M, Diaz W, Polimac D, Pavlovski M, Obradovic Z. Predicting Complications of Diabetes Mellitus Using Advanced Machine Learning Algorithms. Journal of the American Medical Informatics Association. Forthcoming;

Other Significant Products, Whether or Not Related to the Proposed Project

1. Gligorijevic D, Stojanovic J, Djuric N, Radosavljevic V, Grbovic M, Kulathinal RJ, Obradovic Z. Large-Scale Discovery of Disease-Disease and Disease-Gene Associations. Sci Rep. 2016 Aug 31;6:32404. PubMed PMID: 27578529; PubMed Central PMCID: PMC5006166.

2. Gligorijevic D, Stojanovic J, Obradovic Z. Disease types discovery from a large database of inpatient records: A sepsis study. Methods. 2016 Dec 1;111:45-55. PubMed PMID: 27477211.

3. Asadi N, Wang Y, Olson I, Obradovic Z. A heuristic information cluster search approach for precise functional brain mapping. Hum Brain Mapp. 2020 Feb 7;PubMed PMID: 32034846.

4. Radovic M, Ghalwash M, Filipovic N, Obradovic Z. Minimum redundancy maximum relevance feature selection approach for temporal gene expression data. BMC Bioinformatics. 2017 Jan 3;18(1):9. PubMed PMID: 28049413; PubMed Central PMCID: PMC5209828.

5. Ghalwash MF, Cao XH, Stojkovic I, Obradovic Z. Structured feature selection using coordinate descent optimization. BMC Bioinformatics. 2016 Apr 8;17:158. PubMed PMID: 27059502; PubMed Central PMCID: PMC4826549.

(d) SYNERGISTIC ACTIVITIES

1. Academy of Sciences Member: (A) The Academy of Europe (Academia Europaea), from 2015; (B) Serbian Academy of Sciences and Arts, from 2015

2. Journal Editor: (A) Editor-in-Chief: Big Data, 2018 – present; Executive Editor: Statistical Analysis and Data Mining, 2009-2018; (C) Journal Editorial Board Member: 9 journals; Journal Guest Editor: 6 special issues

3. Conference Organizer: (A) Steering Committee Chair: SIAM Data Mining Conference, 2018 - present; (B) General Co-Chair: SIAM Data Mining Conference, 2013 and 2014; (C) Program Co-Chair: IEEE Big Data Conference, 2017; (D) Program Co-Chair: SIAM Data Mining Conference, 2009; (E) Track Co-Chair: 13 international conferences including ACM KDD, SIAM SDM, IEEE ICDM, ACM CIKM, IEEE ICBB

4. Keynote Lectures: 21 at international conferences

5. Mentoring: 45 postdoctoral fellows and Ph.D. students (many have independent research careers at academic institutions and industrial research labs)