

	<p align="center">6th World Congress on Nature and Biologically Inspired Computing (NaBIC2014)</p> <p align="center">Porto, Portugal, 30th July to 1st August, 2014</p> <p align="center">http://www.mirlabs.org/nabic14</p>
Title of Session	Nature Inspired Software and Data Systems
Objectives and scope	<p>Overtime our needs has grown on every facets of life and software systems has taken a prime force to support, but toady the intercommunicating components based on software system is getting complex than ever and aiming further. On the enormous growth of software systems the growth of data generated by such systems has raised up predominantly and manipulation of such data is taking sheer effort to shape up the need of today's data systems. As nature provides the outstanding most system for us to thrive, building software and data systems inspired from nature holds the impeccable potential for future. With extreme computational demand, systems has been turning more complex, efficient, dynamic, portable and sleek and there it is amending the burden of processing and follow through. As today's software overrules modern life, driving everything from mobile phone networks functioning to planes in the air, but when it comes down to keep these increasingly complex systems stay free of faults and adapt to situations, it hauls to epic characteristic tasks. Running down the road we are coming to the need of software that could heal itself and there comes a gigantic sharpness in thinking and effort to build such systems. As more and more engagement of users happening with such system the nature of data generation (viz. Natural language based data) and the need for data manipulation and mining demanding extremely smart and self adaptive and decision making systems as well. Such systems needs to adopt self adaption, intelligence, decision making capabilities and further which is predominantly a solution scope learned from natural acts.</p> <p>The intent of this session is to bring together active researchers and practitioners from academia, government and industry; specifically for those whose primary objectives are to develop nature inspired software and data systems capable of self-adaption, intelligence, decision making and further.</p>
Topics of Interest	<ul style="list-style-type: none"> • Agent Based Systems • Swarm Systems • Intelligent Systems • Decision making systems • Adaptive software systems • Autonomic and self-managed software systems • Autonomous data insight learning systems • Self balancing data distribution systems • Intelligent Data Analytics Systems • Adaptive data migration systems
Session Chair / Co-chair	Dr. Saurav Karmakar

Scientific Committee	
Contact Information	skarmakar.gsu@gmail.com
Brief Biography of the session Organizers	<p>At present, Saurav Karmakar is working as a Senior Architect in Matrix Technologies Inc, Raleigh, NC, USA and is being engaged on redefining aircraft data storage analytics systems through novel system architectural research. He is also engaged as Director of Data Sciences Engineering division of a medical health monitoring and prognosis based start-up company based in Atlanta, GA, USA. Along side he is also serving as the CO-Principal Investigator on collaborative research project in the field of document coreference resolution techniques, funded by National Science Foundation. Last couple of years he was involved as Senior Research Engineer at Digital Reasoning Systems, a NLP and Machine learning idea based research and development company based in Nashville, TN, USA. He is also involved in other collaborative research and recently appointed as industrial mentor for the REU program started by the department of Computer Science at Georgia State University.</p> <p>Earlier in 2011 Saurav has earned his doctorate from the department of Computer Science at Georgia State University, Atlanta, GA, USA along with a masters from the same department in the previous year. He also holds a masters in Mathematics and Statistics from the same university. He has bagged multiple awards during his time in the graduate school and some of the mentionable such ones are Student Leader of the Year 2011, Outstanding Service Award 2011, Outstanding Teaching Award 2010 and he has been featured in multiple university magazines and publications.</p> <p>He has served as Program committee member of multiple conferences over the years and is a member of Mirlabs. Last year he has served as the Industry track co-chair and poster session chair for the 2013 IEEE/WIC/ACM International Conference on Web Intelligence 2013 (WI 2013) and as well as the 2013 IEEE/WIC/ACM International Conference on Intelligent Agent Technology 2013 (IAT 2013) held in November 2013 in Atlanta, GA, USA. He is also working as the poster co-chair for The 2014 IEEE International Conference on Big Data (IEEE BigData 2014) happening in October 2014 n Washington DC, USA.</p>