University POLITEHNICA of Bucharest
Faculty of Automated Control and Computers

313 Splaiul Independenței, Sector 6, 060042,
Bucharest, ROMANIA

FACULTY OF
AUTOMATIC CONTROL
AND COMPUTERS

Assoc. Prof. MIHAI DASCĂLU, Ph.D.
Scientific coordinator in the domain of "Computers and Information Technology"
Doctoral school of Automatic Control and Computers
University Politehnica of Bucharest

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Research profile:
- Natural Language Processing
- Educational Data Mining
- Intelligent Tutoring Systems
- Discourse Analysis
- Computer Supported Collaborative Learning

Ph.D. coordinator since 2018

Scientific publications: More than 150 published papers, including top conferences (AAAI, ITS, AIED, CSLCL, CogSci) and other renowned international conferences (ICALT; EC-TEL; ICWL; LAK; AIMSA), as well as renowned journals (ijCSCL, Computers in Human Behavior);

Research projects (selection, in the last 5 years):
- H2020-ICT-2014/H2020-ICT-2014-1 No. 644187 RAGE – Realising an Applied Gaming Eco-system. Project Director on behalf of UPB. February 2015 - February 2019
- Erasmus+ ENeA-SEA: Higher Education - International Capacity Building Project, Project reference number 573651-EPP-1-2016-1-DE-EPPKA2-CBHE-JP. Project Director on behalf of UPB. October 2016 - October 2019
- P_39_405 HUB Tehnologic Inovativ bazat pe modele semantice si calcule de inalta perfomanta - HUBTECH. Project Director on behalf of Research Technology S.R.L. September 2016 - September 2018

- P_40_270 Ecosistem de cercetare, inovare și dezvoltare de produse și servicii TIC pentru o societate conectată la Internet of Things (NETIO). Operational Manager. September 2016 - September 2020

Membership in professional organizations and scientific committees, editorial boards, scientific awards:
- Associate member of the Academy of Romanian Sciences
- Member of ACM (Association for Computing Machinery) http://www.acm.org/
- Member of IEEE (Institute of Electrical and Electronics Engineers) https://www.ieee.org/
- Member of ROCHI (Romanian Special Interest in Computer-Human Interaction) www.ici.ro/chi-romania/
- Member of ISC2 (International Information Systems Security Certification Consortium) http://www.isc2.org/
- Member of ISACA (Information Systems Audit and Control Association) http://www.isaca.org/
- Member of EC Council http://www.eccouncil.org/
- Member of PMI (Project Management Institute) www.pmi.org
- Member of IIBA (The International Institute of Business Analysis) http://www.iiba.org/
- Award "Best thesis in Artificial Intelligence" (Romanian Association of Artificial Intelligence, 2015);
- Award "In Tempore Opportuno" for the most promising academic results as a young researcher, (University Politehnica of Bucharest, 2013);

Proposed Ph.D. research themes:
- Using semantic models, including word embedding, for the automated evaluation of students' text productions (e.g., essays, self-explanations, contributions in collaborative environments);
- Providing personalized feedback to improve writing style;
- Evaluating participation and collaboration in collaborative environments, including the usage of time series;
- In-depth discourse analysis and the semantic meta-annotation of texts;
- Semantic search for relevant documents;
- Extraction of opinions and sentiment analysis;
- Serious games integrating Natural Language Processing techniques;
- Automated comprehension modeling;
- Extraction of actions and the development of conversational agents;
- Providing intelligent recommendations for the administration of medicinal products based on the information extracted from prospects, respectively from IoT equipment connected to the user.