





Università degli studi di Genova

Name of the organisation:	Università degli studi di Genova	 Università di Genova
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Type of organisation: University

Fields of action: Youth , Universities, Equal opportunities

Description of the organisation

The University of Genoa (Italian: Università degli Studi di Genova), founded in 1481, is one of the largest universities in Italy, counting approximately 35,000 students, 1,400 teaching and research staff and about 1,300 administrative staff.

The Department of Informatics, Bioengineering, Robotics and Systems Engineering (DIBRIS) was established in the Polytechnic School of the University of Genoa in 2012, after the fusion of Computer Engineering and Computer Science departments. DIBRIS is composed of approximately 100 researchers and 70 postdocs and counts approximately 800 students in 3 BSc (Computer Engineering, Biomedical Engineering, Computer Science) and 4 MSc (Computer Engineering, Bioengineering, Computer Science, Robotics Engineering) and 5 PhD courses.

The research activities at DIBRIS develop into six major areas: Computer Science & Engineering, Computational Science and Engineering, Bioengineering, Robotics & Intelligent Control Systems, Information Management for Complex Systems, Theoretical Foundations & Models for Computer Science and Math.

Experience of the organization in previous European projects

DIBRIS has developed more than 130 research projects in cooperation with industries and research centers, including 35 International and European research projects, which accounted for more than 75% of funding in the last ten years. Previous Experience DIBRIS researchers have been involved in the following EC-ICT projects: CARESSES (Coordinator), SLING(Coordinator), SAME (Coordinator), AVANTSSAR, EYESHOTS (Coordinator), SEARISE, CAPSIL, ROBOSKIN (Coordinator), EnTimeMent (Coordinator), eMorph, HUMOUR, I-SEARCH, SIEMPRE, ASC-Inclusion, BRAINBOW, CHRIS, ILHAIRE, DayDreams, IENE

Experience and Expertise of the organization in the project's subject area

In the past, the contact persons have already investigated topics related to the subject of the project with a series of publications

- Oneto, L. and Siri, A. and Luria, G. and Anguita, D., European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN), Dropout Prediction at University of Genoa: a Privacy Preserving Data Driven Approach, 2017.
- Vahdat, M. and Oneto, L. and Anguita, D. and Funk, M. and Rauterberg, M., Neurocomputing, Pag:14-28 - Can Machine Learning explain Human Learning?, Vol:192 - 2016.
- Vahdat, M. and Oneto, L. and Anguita, D. and Funk, M. and Rauterberg, M., European Conference on Technology Enhanced Learning (EC-TEL), A Learning Analytics Approach to Correlate the Academic Achievements of Students with Interaction Data from an Educational Simulator, 2015.
- Vahdat, M. and Oneto, L. and Ghio, A. and Anguita, D. and Funk, M. and Rauterberg, M., European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN), Advances in learning analytics and educational data mining, 2015.
- Vahdat, M. and Oneto, L. and Ghio, A. and Anguita, D. and Funk, M. and Rauterberg, M., European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN), Human Algorithmic Stability and Human Rademacher Complexity, 2015.
- Vahdat, M. and Oneto, L. and Ghio, A. and Donzellini, G. and Anguita, D. and Funk, M. and Rauterberg, M., European Conference on Technology Enhanced Learning (EC-TEL), A Learning Analytics Methodology to Profile Students Behavior and Explore Interactions with Deeds Simulator, 2014.

Contributions that can be provided to the project

We can contribute to

- State of the art review;
- Development of ML-based models for student performance predictions and analysis.

Reasons of involvement in the project

Deepen the research in the context of student performance analysis and prediction based on ML.

Contact Person's Experience and Expertise

Luca Oneto was born in Rapallo, Italy in 1986. He received his BSc and MSc in Electronic Engineering at the University of Genoa, Italy respectively in 2008 and 2010. In 2014 he received his PhD from the same university in the School of Sciences and Technologies for Knowledge and Information Retrieval with the thesis "Learning Based On Empirical Data". In 2017 he obtained the Italian National Scientific Qualification for the role of Associate Professor in Computer Engineering and in 2018 he obtained the one in Computer Science. He worked as Assistant Professor in Computer Engineering at University of Genoa from 2016 to 2019. In 2018 he was co-funder of the spin-off ZenaByte s.r.l. In 2019 he obtained the Italian National Scientific Qualification for the role of Full Professor in Computer Science and Computer Engineering. In 2019 he became Associate Professor in Computer Science at University of Pisa and currently is Associate Professor in Computer Engineering at University of Genoa. He has been involved in several H2020 projects (S2RJU, ICT, DS) and he has been awarded with the Amazon AWS Machine Learning and Somalvico (best Italian young AI researcher) Awards. His first main topic of research is the Statistical Learning Theory with particular focus on the theoretical aspects of the problems of (Semi) Supervised Model Selection and Error Estimation. His second main topic of research is Data Science with particular reference to the problem of Trustworthy AI and the solution of real-world problems by exploiting and improving the most recent Learning Algorithms and Theoretical Results in the fields of Machine Learning and Data Mining.

Anna Siri Ph.D., expert in applied social research methodology, with an emphasis on program planning and evaluation methods. Her main fields of work are international comparative studies in education.

Emanuela Nan has also more than 10 years of Higher Education and Research Projects administration.