

**[MIE 2013] Doctoral conference in
Mathematics, Informatics and Education
19-20 September 2013**

Venue:

Sofia University, Rectorat, Conference Hall (North wing, fl. 2)

Preliminary Conference Program

19 September 2013

08:45-9:15 Registration

09:15-09:30 Opening

Session 1 - Mathematics

Moderator: Maroussia Bojkova

09:30-10:30 *Crump-Mode-Jagers Branching Processes: Application for Population Projections*, Plamen Trayanov and Maroussia Slavchova-Bojkova

10:00-10:30 *Using Classification Methods to Predict Market Demand for Products with Short Sales History*, Nina Daskalova and Dragoslav Dragiev

10:30-11:00 *EM Algorithms for MLE of Correlated Probit Models*, Denitsa Grigorova and Ralitzia Gueorguieva

11:00-11:30 Coffee break

Session 2 - Mathematics

Moderator: Maroussia Bojkova

11:30-12:00 *On a Poisson negative binomial process*, Krasimira Kostadinova

12:00-12:30 *Modelling of the amount of chlorophyll-a, which is contained in the phytoplankton population by branching process*, Antoanela Terzieva

12:30-13:00 *The Lichnerowicz and Obata type results on a quaternionic contact manifold*, Alexander Petkov

13:00-14:00 Lunch

Session 3 – Technology Enhanced Learning

Moderator: Pencho Mihnev

14:00-14:30 *Lost in letters,*
Temenuzhka Zafirova-Macheva

14:30-15:00 *Computer Technologies for Accessible Education,*
Temenuzhka Zafirova-Malcheva and Pavel Boytchev

15:00-15:30 *Mobile Technologies in Learning,*
Lyubomir Serafimov

15:30-16:00 Coffee break

Session 4 – Technology Enhanced Learning

Moderator: Pencho Mihnev

16:00-16:30 *Overview of emerging ubiquitous learning technologies in the context of learning theories,* Albena Antonova

16:30-17:00 *Knowledge management in NABOO,* Mila Dragomirova

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Session 5 – Informatics

Moderator: Ivan Koychev

09:00-09:30 *Recommendations in social networks: an extra feature or an essential need,*
Milen Chechev and Ivan Koychev

09:30-10:00 *Increasing the level of PNG compression of grayscale natural images by applying noise-reduction filters,* Veselina Vetova

10:00-10:30 *Read Optimization Based on Column-Oriented DBMS,*
Hristo Kyurkchiev and Kalinka Kaloyanova

10:30-11:00 Coffee break

Session 6 – Informatics

Moderator: Ivan Koychev

11:00-11:30 *Denoising of Metagenomic Data from High-Throughput Sequencing,*
Milko Krachunov

11:30-12:00 *NoSQL solutions to handle big data,*
Emanuela Mitreva and Kalinka Kaloyanova

12:00-12:30 *Cloud Computing - Security Concerns and Countermeasures,*
Radoslav Ivanov

12:30-13:00 *Comparative analysis of brain data clustering,*
Sergey Milanov, Olga Georgieva and Petia Georgieva

13:00-14:00 Lunch

Session 7 – Informatics

Moderator: Krassen Stefanov

14:00-14:30 Extending a BPMN Engine with Evaluation Metrics for KPIs,

Kristiyan Shahinyan and Evgeniy Krastev

14:30-15:00 Users and Internet Of Things for WellBeing (Smart Health Cardio Belt),

*Eugenia Kovatcheva, Atanas Georgiev, Mirolyuba Madjarova, Roumen Nikolov
and Alexander Chikalanov*

15:00-15:30 Research of Success Factors for Start-up Companies,

Boyan Yankov

15:30-16:00 Coffee break

Session 8 – Informatics

Moderator: Krassen Stefanov

16:00-16:30 A different way to access virtual private networks,

Zornitsa Yakova

16:30-17:00 Introduction of enterprise resource planning at Bulged,

Nikifor Ionkov

17:00-17:30 Closing
