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**Stony Brook University Concludes the 31st International Symposium on MASCOTS**

*Celebrating Innovations in Computer Systems and Networks*


**Stony Brook, NY:** On October 18, 2023, Stony Brook University is proud to announce the successful conclusion of the 31st International Symposium on the Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS), which took place from October 16 to 18, 2023. The conference was held at the prestigious Wang Center on the Stony Brook University campus and brought together leading academics and industry practitioners from around the world to present and discuss the latest research findings in the fields of computer systems and networks.

The conference was organized by a dedicated team, including Program Co-Chairs Anshul Gandhi from Stony Brook University, and Maria Carla Calzarossa from the University of Pavia. Publicity Chairs Krzysztof Grochla and Konrad Polys from IITIS-PAN played a crucial role in promoting the event and ensuring its visibility. Mohammad Delasay from Stony Brook University served as the Local Arrangements Chair and was instrumental in making sure that the conference ran smoothly.

"We are delighted to have successfully hosted the 31st MASCOTS conference at Stony Brook University," said Anshul Gandhi, MASCOTS Program Chair at Stony Brook University. "The conference facilitated the exchange of groundbreaking ideas and research in the field of computer systems and network performance analysis. We are proud to have played a part in advancing this critical area of study."

**Two papers were awarded the "Best Paper Award" at the conference:**

"An Economic analysis of 5G network slicing and the impact of regulation" by Yassine Hadjadj-Aoul, Mael Le Treust, Patrick Maille, and Bruno Tuffin. This paper presented an economic analysis of network slicing,

offering insight into a three-player game involving an ISP, a service provider, and an end-user.


"Modelling the energy performance of off-grid sustainable green cellular base stations" by Godlove Suila Kuaban, Erol Gelenbe, Tadeusz Czachorski, and Piotr Czekalski. This paper introduced a novel model for the charging and discharging of energy storage systems using a diffusion process with absorbing barriers.

In the past three days, MASCOTS featured a remarkable program consisting of five conference sessions and a total of 28 engaging presentations, including three impactful keynote presentations. The three distinguished keynote speakers at the 31st International Symposium on MASCOTS illuminated critical themes in the field of computer systems and networks. Dr. Tamar Eilam, from IBM Research, explored the sustainability of AI and its environmental impact. Dr. Siddhartha Sen, of Microsoft Research New York City, advocated for human behavior modeling to enhance AI system design. Professor Vishal Misra, of Columbia University, embarked on a journey through the power of Markov models, relating them to network traffic, TCP congestion control, and the fascinating realm of Large Language Models (LLMs). These presentations collectively demonstrated the diverse and evolving landscape of research in this dynamic field.

**About MASCOTS:** The International Symposium on the Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS) is a premier forum for the exchange of ideas, innovations, and research findings in the domain of computer systems and networks. MASCOTS is committed to advancing the state of the art and promoting collaboration among scholars and industry experts in these fields. For more information, please visit https://mascots.iitis.pl/