

GREC 2023

Tentative program

DATE : Thursday 24th August

Location :

GREC 2023 will be held at the Adobe World Headquarters
345 Park Avenue, San Jose, California, USA



Morning

9:00-9:10	Opening session <i>General Chair</i> : Jean-Christophe Burie
9:10-10:30	Keynote Talk <i>Chair</i> : Jean-Christophe Burie Professor Richard Zanibbi <i>Rochester Institute of Technology</i> <i>Title</i> : <i>Math Formula Recognition and Search in MathDeck</i> <u>Abstract</u> : MathDeck is a new prototype for searching PDF documents using both math formulas and text (https://demo.mathdeck.org). The first version of the prototype indexes research papers on Natural Language Processing in the ACL Anthology (https://aclanthology.org). In this talk, we will discuss the design of MathDeck, focusing on modules that recognize, index, and search math formulas whether they are in 'born digital' vector graphics representations (i.e., character and line drawing instructions) or in raster images. We will also talk more broadly about the role of graphics recognition in Mathematical Information Retrieval, and research opportunities including multi-modal search engines that link documents, slides, audio, and videos through their graphics and text. <i>This work has been supported by the National Science Foundation (USA) and the Alfred P. Sloan Foundation.</i>
10:30-11:00	<i>Coffee-break</i>
11:00-12:30	Session 1 : Symbol Recognition <i>Chair</i> : Bart Lamiroy
	(11:00-11:15) Segmentation-Free Alignment of Arbitrary Symbol Transcripts to Images <i>Pau Torrás, Mohamed Ali Souibgui, Jialuo Chen, Sanket Biswas, Alicia Fornes</i>
	(11:15-11:30) Can Pre-trained Language Models help in Understanding Handwritten Symbols? <i>Adarsh Tiwari, Sanket Biswas, Josep Lladós</i>
	(11:30-11:45) Text Extraction for Handwritten Circuit Diagram Images <i>Johannes Bayer</i>
	(11:45-12:00) Optical Music Recognition: Recent Advances, Current Challenges, and Future Directions <i>Jorge Calvo-Zaragoza, Juan Carlos Martínez-Sevilla, Carlos Penarrubia, Antonio Ríos-Vila</i>
	(12:00-12:30) <i>Panel Discussion</i>
12 :30-13 :30	<i>Lunch</i>

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Afternoon

13:30-14:40	Session 2 : Comic Analysis <i>Chair : Rafael Lins</i>
	(13:30-13:45) KangaiSet: A dataset for visual emotion recognition on mangas <i>Ruddy Théodose, Jean-Christophe Burie</i>
	(13:45-14:00) Automatic Detection of Comic Characters: An Analysis of Model Robustness Across Domains <i>Javier Lucas Aura, Antonio Javier Gallego, Jorge Calvo-Zaragoza</i>
	(14:00-14:15) Detection of buried complex text. Case of Onomatopoeia in comics books <i>John Benson LOUIS, Jean-Christophe Burie</i>
	(14:15-14:40) Panel Discussion
14:40 - 15:10	General Discussion : What is the future of pure research in graphics recognition ? <i>Chair : Jean-Christophe Burie</i>
15:10-15:40	<i>Coffee Break</i>
15:40-17:10	Session 3 : Graphics <i>Chair : Josep Lladós</i>
	(15:40-15:55) Reconstruction of Power Lines from Point Clouds <i>Alexander Gribov, Khalid Duri</i>
	(15:55-16:10) A Survey and Approach to Chart Classification <i>Anurag Dhote, Mohammed Javed, David Doermann</i>
	(16:10-16:25) FPNet: Deep Attention Network for Automated Floor Plan Analysis <i>Abhinav Upadhyay, Alpana Dubey, Suma Mani Kuriakose</i>
	(16:25-16:40) MuraNet: Multi-task Floor Plan Recognition With Relation Attention <i>Lingxiao Huang, Jung-Hsuan Wu, Chiching Wei, Wilson Li</i>
	(16:40-17:10) Panel Discussion
17:10-17:25	Conclusion and Closing <i>General Chair : Jean-Christophe Burie</i>