

## GREC 2021 : Program

GREC will be organized as an hybrid event :

– Location : GREC 2021 will be held at the University EPFL (Swiss Federal Institute of Technology) on [the ground floor of the BC building](#).

(How to [access to EPFL campus of Lausanne](#) ?)

– A **link** for remote participants will be provided to registered people.

Speakers are invited to read the **guidelines for speakers** in order to prepare their presentation.

**DATE : Sunday 05<sup>th</sup> September**

### *Morning*

09:00-09:10	<b>Opening Session</b> <i>General Chair : Jean-Christophe Burie</i>
09:10-10:30	<b>Keynote Talk</b> <i>Chair : Pau Riba</i>  <b>Professor Timothy Hospedales</b> <i>University of Edinburgh</i> Title : <i>All about Free-hand sketch</i> Abstract: <i>In this talk I will give a tour through the world of free-hand sketch from the perspective of SketchX lab. We will look at diverse sketch representations and diverse applications spanning recognition, retrieval, abstraction, synthesis and competitive sketching. In the process we will see a diverse set of machine learning tools, both classic and cutting edge, that can help to improve accuracy, efficiency, fidelity, and robustness of sketch-related tasks.</i>
10:30-11:00	<i>Coffee-break</i>
11:00-12:30	<b>Session 1 : Handwritten Graphics</b> <i>Chair : Pau Riba</i>
	(11:00-11:10) <b>Relation-based representation for handwritten mathematical expression recognition</b> <i>Truong Thanh-Nghia, Huy Quang Ung, Hung Tuan Nguyen, Cuong Tuan Nguyen and Masaki Nakagawa</i>

	<p>(11:10-11:20) <b>A Public Ground-Truth Dataset for Handwritten Circuit Diagram Images</b> <i>Felix Thoma, Johannes Bayer, Yakun Li and Andreas Dengel</i></p> <p>(11:20-11:30) <b>A Self-Supervised Inverse Graphics Approach for Sketch Parametrization'</b> <i>Albert Suso, Pau Riba, Oriol Ramos-Terrades and Josep Lladós</i></p> <p>(11:30-11:40) <b>Border Detection for Seamless Connection of Historical Cadastral Maps</b> <i>Ladislav Lenc, Martin Prantl, Jiří Martínek and Pavel Král</i></p> <p>(11:40-11:50) <b>Data Augmentation for End-to-End Optical Music Recognition</b> <i>Juan Carlos López-Gutiérrez, Jose J. Valero-Mas, Francisco J. Castellanos and Jorge Calvo-Zaragoza</i></p> <p>(11:50-12:30) Panel Discussion</p>
<b>12:30-14:00</b>	<b>Lunch</b>

### Afternoon

<b>14:00-15:10</b>	<p><b>Session 2 : Typeset Graphics</b> <i>Chair : Motoi Iwata</i></p>
	<p>(14:00-14:10) <b>Graph-based Object Detection Enhancement for Symbolic Engineering Drawings</b> <i>Mizanur Rahman Syed, Johannes Bayer and Andreas Dengel</i></p> <p>(14:10-14:20) <b>ScanSSD-XYc: Faster Detection for Math Formulas</b> <i>Abhisek Dey and Richard Zanibbi</i></p> <p>(14:20-14:30) <b>Famous Companies Use More Letters in Logo:A Large-Scale Analysis of Text Area in Logo</b> <i>Shintaro Nishi, Takeaki Kadota and Seiichi Uchida</i></p> <p>(14:30-14:40) <b>MediTables: A New Dataset and Deep Network for Multi-Category Table Localiza-tion in Medical Documents</b> <i>Akshay Deshpande, Vaishnav Potlapalli and Ravi Kiran Sarvadevabhatla</i></p> <p>(14:40-15:10) Panel discussion</p>
<b>15:10-15:30</b>	<p><b>General Discussion 1</b> <i>Chair : Masaki Nakagawa</i></p>
<b>15:30-16:00</b>	<i>Coffee-break</i>

<b>16:00-17:00</b>	<b>Session 3: Handwritten Text and Annotations</b> <i>Chair : Richard Zanibbi</i>
	<p>(16:00-16:10) <b>Online analysis of children handwritten words in dictation context</b>  <i>Omar Krichen, Simon Corbillé, Eric Anquetil, Nathalie Girard and Pauline Nerdeux</i></p> <p>(16:10-16:20) <b>A Transcription Is All You Need: Learning to Align through Attention</b>  <i>Pau Torras, Mohamed Ali Souibgui, Jialuo Chen and Alicia Fornés</i></p> <p>(16:20-16:30) <b>Accurate Graphic Symbol Detection in Ancient Document Digital Reproductions</b>  <i>Zahra Ziran, Francesco Leotta, Massimo Mecella, Eleonora Bernasconi and Antonella Ghignoli</i></p> <p>(16:30-17:00) Panel discussion</p>
<b>17:00-17:20</b>	<b>General Discussion 2</b> <i>Chair : Alicia Fornes</i>
<b>17:20-17:30</b>	<b>Conclusion and Closing</b> <i>General Chair : Jean-Christophe Burie</i>