



OPENING

9th edition of International Workshop on Camera Based Document Image Analysis & Recognition (CBDAR 2021)

<https://cbdar2021.univ-lr.fr>

https://twitter.com/cbdar_workshop



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CBDAR 2021 Organizers

- Muhammad Muzzamil Luqman (L3i, La Rochelle, France)



- Sheraz Ahmed (DFKI, Kaiserslautern, Germany)





CBDAR 2021 Previous Editions

- 8th edition, Sydney/Australia (2019)
- 7th edition, Kyoto/Japan (2017)
- 6th edition, Nancy/France (2015)
- 5th edition, Washington DC/USA (2013)
- 4th edition, Beijing/China (2011)
- 3rd edition, Barcelona/Spain (2009)
- 2nd edition, Curitiba/Brazil (2007)
- 1st edition, Seoul/Korea (2005)



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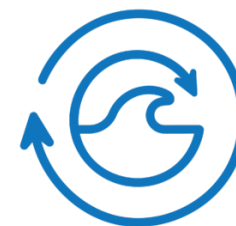
CBDAR 2021 Sponsors



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- For sponsoring a cash award for the best paper of CBDAR 2021
- For sponsoring top-5 papers of CBDAR 2021 for an ongoing special issue of MDPI Journal of Imaging



CIRCULARSEAS

- European Regional Development Fund Program “Interreg Atlantic Area Program in the framework of the CircularSeas Project” for supporting the successful organization of CBDAR 2021



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CBDAR 2021 Statistics

- 8 submissions
- authors in 4 different countries (Brazil, India, Japan, USA)
- 3 review reports for each paper
- 6 papers accepted for oral presentation



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CBDAR 2021 Program Committee

- Anna Zhu, Wuhan University of Technology – China
- Cheng-Lin Liu, Chinese Academy of Sciences – China
- C.V. Jawahar, IIIT – India
- Dimosthenis Karatzas, Computer Vision Centre, Universitat Autònoma de Barcelona – Spain
- Faisal Shafait, National University of Science and Technology – Pakistan
- Joseph Chazalon, EPITA Research & Development Lab. – France
- Kenny Davila, Universidad Tecnológica Centroamericana – Honduras
- Masakazu Iwamura, Osaka Prefecture University – Japan
- Muhammad Imran Malik, National University of Science and Technology – Pakistan
- Nibal Nayef, MyScript – France
- Petra Gomez-Krämer, L3i, La Rochelle University – France
- Umapada Pal, Indian Statistical Institute, Kolkata – India





Topics of Interest include (but are not limited to):

- Camera based acquisition of written information
- Restoration of camera captured documents (dewarping, deblurring, etc.)
- Camera-based document analysis and recognition
- Document image quality assessment / estimation
- Image degradation models for camera captured characters/documents
- Text extraction from scene images
- Text in video
- Document image retrieval
- Device constrained techniques and algorithms
- Performance evaluation and metrics
- Mobile OCR
- Smartphone-based document scanning applications
- Feature extraction in camera capture situations

CBDAR 2021

Topics of Interest



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CBDAR 2021 Technical Program

MONDAY, 06 SEPTEMBER 2021	IN THE HYBRID ROOM BC01
14h00-14h10	Opening
14h10-14h50	Keynote talk by Professor Koichi Kise (Osaka Prefecture University, Japan) (more details)
14h50-15h30	<p>Oral session 1 Session chair: Nibal Nayef (MyScript – France)</p> <ul style="list-style-type: none"> Denzel Farmer, Owen Eicher, Nishatul Majid and Yiyan Li. Handwritten Chess Scoresheet Recognition Using a Convolutional BiLSTM Network Naoto Morita, Ryunosuke Inoue, Masashi Yamada, Takatoshi Naka, Atsuko Kanematsu, Shinya Miyazaki and Junichi Hasegawa. Inscription Segmentation using Synthetic Inscription Images for Text Detection at Stone Monuments
15h30 – 16h00	<p>Group photo Coffee break (on the terrasse (4th floor) of the BC building and is included in the registration fee)</p>

16h00 – 17h20	<p>Oral session 2 Session Chair: Joseph Chazalon (EPITA Research & Development Lab. – France)</p> <ul style="list-style-type: none"> Sanjana Gunna, Rohit Saluja and C.V. Jawahar. Transfer Learning for Scene Text Recognition in Indian Languages Aline Geovanna Soares, Byron Leite Dantas Bezerra and Estanislau Baptista Lima. How Far Deep Learning Systems for Text Detection and Recognition in Natural Scenes are Affected by Occlusion? Shivam Sood, Rohit Saluja, Ganesh Ramakrishnan and Parag Chaudhuri. CATALIST: CAmera TrAnsformations for multi-LIngual Scene Text recognition Karina O. M. Bogdan, Guilherme A. S. Megeto, Rovilson Leal, Gustavo Souza, Augusto C. Valente and Lucas Kirsten. DDocE: Deep Document Enhancement with Multi-Scale Feature Aggregation and Pixel-Wise Adjustments
17h20 – 17h30	<p>Best paper award ceremony Closing</p>



CBDAR 2021 Best Paper Award

- Cash award sponsored by MDPI
- Based on quality and originality of work and quality of presentation





Special Issue MDPI Journal of Imaging

- Top-n papers will be invited (free of cost) to submit extended version of papers for an ongoing special issue of MDPI Journal of Imaging titled “Mobile Camera-Based Image and Video Processing”

Guest Editors:

- Dr. Petra Gomez-Krämer (La Rochelle University, France)
- Dr. Joseph Chazalon (EPITA Research and Development Laboratory, France)
- Dr. Muhammad Muzzamil Luqman (La Rochelle University, France)





CBDAR 2021 Group Photo

15h30

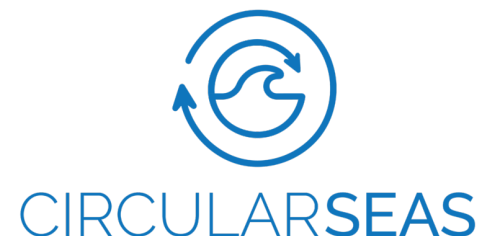
Before going for coffee break





CBDAR 2021

We wish you a fruitful workshop



CBDAR 2021 Keynote talk



Beyond Camera-Based Document Analysis and Recognition: Towards Camera-Based Human Document Interactions

by Professor Koichi Kise (Osaka Prefecture University, Japan)

http://imlab.jp/~kise/index_e.html



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