

CBMS 2020: Two special issues

SNCS = SN Computer Science

CBM: Computers in Biology and Medicine

General guideline:

Authors are suggested to thoroughly revise the conference papers for journal publication. The revision requires thorough extension of the conference proceedings. The overlap with respect to conference proceedings cannot be more than 40%.

The revised papers will go through the normal journal-style review process.

Submission (till December 15, 2020):

- *SN Computer Science:*
Select special issue 'SI: AI and Deep Learning Trends in Healthcare' during the submission.
- *Computers in Biology and Medicine:*
Select special issue 'SI: Recent Trends in Cognitive Computing for Healthcare' during the submission.

If you have any concern/issue, write email to KC Santosh at santosh.kc@usd.edu. Thank you.

Chairs, CBMS 2020

ID	Authors	Title	Assigned Special issue
61	Ramon Gonçalves Pereira, Giulia Zanon, Pâmela Azevedo, Lucas Tôrres, Túlio Rocha, Isabella Zuppo and Augusto Afonso Guerra Junior	MCRB: A multiclassifier tool for risk of biasassessment in a systematic review to produce health evidence to decision making	CBM
167	Debesh Jha, Michael A. Riegler, Dag Johansen, Pål Halvorsen and Håvard D. Johansen	DoubleU-Net: A Deep Convolutional Neural Network for Medical Image Segmentation	SNCS
43	Peixian Liang, Jianxu Chen, Yizhe Zhang, Hongxiao Wang, Hao Zheng, Pengfei Gu and Danny Chen	InTracker: An Integrated Detector-tracker Framework for Cell Detection and Tracking	CBM
III	Zhuo Zhao, Hongxiao Wang, Yizhe Zhang, Hao Zheng, Siyuan Zhang and Danny Chen	A Coarse-to-Fine Data Generation Method for 2D and 3D Cell Nucleus Segmentation	CBM
134	Tobias Blomberg, Nesaretnam Barr Kumarakulasinghe, Jintai Liu, Alexandra Saraiva Leao and Panagiotis Papapetrou	Evaluating Local Interpretable Model-Agnostic Explanations on Clinical Machine Learning Classification Models	SNCS
32	Jose F Rodrigues-Jr, Bruno Brandoli and Sihem Amer-	DermaDL: advanced Convolutional Neural Networks for automated melanoma detection	SNCS

	Yahia		
86	Ivan Moura, Ariel Soares Teles, Francisco Silva and Luciano Coutinho	Mental Health Ubiquitous Monitoring: Detecting Context-Enriched Sociability Patterns Through Complex Event Processing	CBM
58	Dipayan Das, K.C. Santosh and Umapada Pal	Cross-Population Train/Test Deep Learning Model: Abnormality Screening In Chest X-rays	SNCS
21	Paulo Barbosa, Douglas Santos, Caio Lucena, Leire Bastida, José Fernando Ferreira and Glória Cea	The OCARIoT Data Acquisition App	CBM
26	Lucía Prieto Santamaría, Eduardo P. García del Valle, Gerardo Lagunes García, Massimiliano Zanin, Alejandro Rodríguez González, Ernestina Menasalvas Ruiz, Yuliana Pérez Gallardo and Gandhi Samuel Hernández Chan	Analysis of new nosological models from disease similarities using clustering	CBM
38	Haohui Liu, Ying-Hwey Nai, Christopher Chen and Anthonin Reilhac	Deep Learning-Based Estimation of Non-Specific Uptake in Amyloid-PET Images from Structural MRI for Improved Quantification of Amyloid Load in Alzheimer's Disease	SNCS
88	Alejandro Rodriguez-González, Juan Manuel Tuñas, Diego Fernandez Peces-Barba, Ernestina Menasalvas, Almudena Jaramillo, Manuel Cotarelo, Antonio Conejo, Amalia Arce and Angel Gil	Creating a metamodel based on machine learning to identify the sentiment of vaccine and disease-related messages in Twitter: the MAVIS study	CBM

157	Sumit Soman, Sudeep Rai, Priyesh Ranjan, Amarjeet Cheema and Praveen Srivastava	Mobile-Augmented Smart Queue Management System for Hospitals	CBM
164	Jongwoo Kim and Loc Tran	Ensemble Learning based on Convolutional Neural Networks for the Classification of Retinal Diseases from Optical Coherence Tomography Images	SNCS
189	Ermanno Cordelli, Matteo Tortora, Rosa Sicilia and Paolo Soda	Time-window SIQR analysis of COVID-19 outbreak and containment measures in Italy	CBM
136	Lenin Falconí, María Pérez, Wilbert Geovanny Aguilar and Aura Conci	Transfer Learning and Fine Tuning in Mammogram BI-RADS Classification	SNCS
52	Abdullah-Al-Zubaer Imran, Chao Huang, Hui Tang, Wei Fan, Kenneth Cheung, Michael To, Zhen Qian and Demetri Terzopoulos	Analysis of Scoliosis from Spinal X-Ray Images	CBM
140	Lincoln Silva, Flávio Seixas, Débora Muchaluat-Saade, Cristina Fontes and Aura Conci	A Computational Method for Breast Abnormality Detection Using Thermographs	CBM
163	Siddharth Srivastava, Sumit Soman, Astha Rai and Amarjeet Cheema	An Online Learning Approach for Dengue Fever Classification	CBM
10	Claudio Santos, Luis Afonso, Clayton Pereira and Joao Paulo Papa	BreastNet: Breast Cancer Categorization Using Convolutional Neural Networks	SNCS
158	Maria Bampa, Panagiotis Papapetrou and Jaakko	A Clustering Framework for Patient Phenotyping with Application to Adverse Drug Events	CBM

	Hollmèn		
170	Rosa Sicilia, Ermanno Cordelli and Paolo Soda	On using meta-features to learn under class skew in biomedical domains	CBM
44	Sarun Paisarnsrisomsuk, Carolina Ruiz and Sergio Alvarez	Improved deep learning classification of human sleep stages	SNCS
59	Wallapak Tavanapong, Junghwan Oh, Gavin Kijkul, Jacob Pratt, Johnny Wong and Piet Degroen	Real-time Feedback for Colonoscopy in a Multi-center Clinical Trial	SNCS
36	Anastasios Nentidis, Konstantinos Bougiatiotis, Anastasia Krithara and Georgios Paliouras	iASiS Open Data Graph: Automated Semantic Integration of Disease-Specific Knowledge	SNCS
155	Sudha Subramaniam, Jayanthi Kb, Rajasekaran C and Ramani Kuchelar	Deep Learning Architectures for Medical Image Segmentation	SNCS
22	Karl A. Morris, Tania Giovannetti and Sarah M. Lehman	Towards the Use of Smart Home Sensor Networks to Generate Predictive Activity Models	SNCS
35	Mirela Teixeira Cazzolato, Jonathan Ramos, Lucas Rodrigues, Lucas Scabora, Daniel Chino, Ana Elisa Jorge, Paulo Mazzoncini Azevedo-Marques, Caetano Traina Jr. and Agma Juci Machado Traina	Semi-Automatic Ulcer Segmentation and Wound Area Measurement Supporting Telemedicine	CBM
96	Bisakh Mondal, Nibaran Das, Kc Santosh and Mita Nasipuri	Improvement of skin disease identification system using Generative AI	SNCS

99	Andrew Wen, Feichen Shen, Sungrim Moon, Hongfang Liu and Jungwei Fan	A Deep Profiling and Visualization Framework to Audit Clinical Assessment Variation	SNCS
106	Oswaldo Solarte-Pabón, Ernestina Menasalvas and Alejandro Rodriguez	Lung Cancer Diagnosis Extraction from Clinical Notes written in Spanish	CBM
117	Sangeeta Biswas, Johan Rohdin and Martin Drahansky	Grading Quality of Color Retinal Images to Assist Fundus Camera Operators	CBM
74	André Victória Matias, Allan Cerentini, Luiz Antonio Buschetto Macarini, João Gustavo Atkinson Amorim, Felipe Perozzo Daltoé and Aldo von Wangenheim	Segmentation, Detection and Classification of Cell Nuclei on Oral Cytology Samples Stained with Papanicolaou	SNCS
175	Fellipe Barbosa, Bruno Carvalho and Rafael Gomes	Accurate Chronic Wound Area Measurement using Structure from Motion	SNCS