17th International Conference on BioInformatics and BioEngineering

Oct 23-25, 2017, Washington DC, USA

Conference Program

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MONDAY, October 23, 2017

7:30 – 8:50: **Breakfast & Welcome**

Opening Keynote
8:50 - 9:50 Wendy J. Nilsen, NSF
CIRRUS AB *Smart and Connected Health*

9:50 – 10:00: 

PAPER SESSIONS 10:00 – 12:00

146/136/122/66 Papers: Neuro-Brain Imaging, CIRRUS C

CHAIR: IOSIF PAPADAKIS KTISTAKIS

A Comparative Survey on Simultaneous EEG-fMRI Methodologies (146)
Spyridon Manganas, Nikolaos Bourbakis

Machine Learning and Deep Learning Techniques to Predict Overall Survival of Brain Tumor Patients using MRI Images (136)
Lina Chato, Shahram Latifi

A Neuroimaging Feature Extraction Model for Imaging Genetics with Application to Alzheimer's Disease (122)
Chunfei Li, Chen Fang, Mercedes Cabrerizo, Armando Barreto, Jean Andrian, Malek Adjouadi, David Loewenstein, Ranjan Duara

Holographic Interface for Three-dimensional Visualization of MRI on HoloLens: A Prototype Platform for MRI Guided Neurosurgeries (66)
Cristina M. Morales Mojica, Nikhil V. Navkar, Dimitrios Tsagkaris, Andrew Webb, Theodosios A. Birbilis, Ioannis Seimenis, Nikolaos V. Tsekos

MONDAY, October 23, 2017

138/140/139/98 Papers: Drugs and Genomics, CIRRUS AB

CHAIR: MIKE RAYMER

Investigating the Effects of Rare Variants in Concurrent Drug-Usage: An Association Analysis Approach (138)

Rebekah Loving, Michael Peterson

Streamlining the Genomics Processing Pipeline via Named Pipes and Persistent Spark Datasets (140)
Walter Blair, Leonardo de Melo Joao, Larry Davis, Paul Anderson

Latent Dirichlet Allocation for Classification using Gene Expression Data (139)

Hima Yalamanchili, Soon Jye Kho, Michael Raymer

Implementation and Performance Comparison of Some Heuristic Algorithms for Block Sorting (98)

Asai Asaithambi, Swapnoneel Roy and Sandhya Turlapaty

99/71/70/69 Papers: Cell Detection and Processing, CIRRUS D

CHAIR: PAULO WANDER BARBOSA

An Extended Type Cell Detection and Counting Method based on FCN (99),
Runkai Zhu, Dong Sui, Hong Qin, Aimin Hao

Desynchronization and Energy Efficiency of Gaussian Neurostimulation on Different Sites of the Basal Ganglia (71),
Mohammad Daneshzand, Sabreen Ayad Ibrahim, Miad Faezipour and Buket D. Barkana

The Size of Red Blood Cells Regulates the Extent of Pulmonary Capillary Diameter Effect on Pulmonary Gas Exchange Process (70),
Kamyar Esmaeili Pourfarhangi, Mohammad Sahlabadi

Studies of a Hybrid and Multiscale Tumor Growth Model via Isogeometric Analysis using PetIGA (69),
Paulo Wander Barbosa, Adriano M. De A. Côrtes, Lucia Catabriga

MONDAY, October 23, 2017

12:00 – 13:30: 

Afternoon Keynote
13:30 - 14:30 Andy Baxevanis, NIH
CIRRUS AB *Animal Genomes for Human Health*

PAPER SESSIONS 14:30 – 16:30

49/48/34/78 Papers: Brain Networks and Interfacing, CIRRUS AB

CHAIR: P. ANTSAKLIS

Encoding Multi-Resolution Brain Networks Using Unsupervised Deep Learning (49)
Arash Rahnama, Abdullah Alchihabi, Vijay Gupta, Panos J. Antsaklis, Fatos T. Yarman Vural

ES1D: A Deep Network for EEG-based Subject Identification (48)
Pablo Arnau- González, Stamos Katsigiannis, Naeem Ramzan, Debbie Tolson, Miguel Arevalillo-Herráez

Multi-Task Learning for Commercial Brain Computer Interfaces (34)
Georgios Panagopoulos

A Low Power Digitally Assisted Analog Front End for Neural Interface with Optical Reception (78)
Kanishka De, Rehan Ahmed, Cheng Hao, Chris Hutchens

MONDAY, October 23, 2017

45/35/33/8 Papers: RNA – DNA, CIRRUS C

CHAIR: ZAID AL-ARS

Reference-free Identification of Phage DNA Using Signal Processing on Nanopore Data (45)

Kristýna Kupková, Ivo Provaznik, Karel Sedlář

Extracting the Co-occurrences of DNA Maximal Repeats in both Human and Viruses (35)

Jing-Doo Wang, Yi-Chun Wang, Rouh-Mei Hu, Jeffrey J.P. Tsai

The Relevance of Upstream and Downstream mRNA Regions in the Prediction of Translation Initiation Site of the Protein (33)

Wallison W. Guimaraes, Cristiano L. N. Pinto, Cristiane N. Nobre and Luis E. Zárat

Predictive Genome Analysis Using Partial DNA Sequencing Data (8)

Nauman Ahmed, Koen Bertels, Zaid Al-Ars

73/64/62/47 Papers: Tissue, Cells, and Bacteria, CIRRUS D

CHAIR: E. BRITZOLAKI

Automated Microaneurysm Detection in Fundus Images through Region Growing (73)

Lin Li, Juan Shan

One-class Differential Expression Analysis using Tensor Decomposition-based Unsupervised Feature Extraction Applied to Integrated Analysis of Multiple Omics Data from 26 Lung Adenocarcinoma Cell Lines (64)

Y-H. Taguchi

3D Segmentation, Visualization and Quantitative Analysis of Differentiation Activity for Mouse Embryonic Stem Cells using Time-lapse Fluorescence Microscopy Images (62)

Yuan-Hsiang Chang, Hideo Yokota, Kuniya Abe, Chun-Chi Chen, Ming-Dar Tsai

MONDAY, October 23, 2017

SVM Classification Model of Similar Bacteria Species using Negative Marker: Based on Matrix-Assisted Laser Desorption/Ionization Time-Of-Flight Mass Spectrometry (47)

Jongseo Lee, Yoonsu Shin, Songkuk Kim, Kyoohyoung Rho, Kyuhwan Park

16:30 – 17:00: 

PAPER SESSIONS 17:00 – 19:00

22/106/25/103 Papers: Cognitive Modeling, CIRRUS AB

CHAIR: M. FUJIMOTO

Modeling Global and local Codon Bias with Deep Language Models (22)

Masaki Fujimoto, Paul Bodily, Cole Lyman, J. Andrew Jacobsen, Quinn Snell, Mark Clement

Identification of ADHD Cognitive Pattern Disturbances Using EEG and Wavelets Analysis (106)

Rogério Gabriel, Marilda Spindola, Alexandre Mesquita, Angelo Zerbetto

Knowledge-Based Biomedical Word Sense Disambiguation with Neural Concept Embeddings (25)

Akm Sabbir, Antonio Jimeno-Yepes, Ramakanth Kavuluru

Effects of Open versus Closed Eyes on Physiological Conditions During a Working Memory Task (103)

Kazuya Onishi, Hiroshi Hagiwara

MONDAY, October 23, 2017

135/134/76/39 Papers: Analysis of Biosequences, CIRRUS C

CHAIR: A. YAMAMOTO

Multiple Sequence Alignment using Hybrid Parallel Computing (135)
Eloi Araujo, Marco A. Stefanes, Valter O. Ferlete, Luiz Carlos Rozante

Protein-Protein Interaction Extraction from Text by Selecting Linguistic (134)
Thuy Thi Thanh Phan, Takenao Ohkawa, Akihiro Yamamoto

Streaming Distributed DNA Sequence Alignment Using Apache Spark (76)
Hamid Mushtaq, Nauman Ahmed, Zaid Al-Ars

Towards Centralized MS/MS Spectra Preprocessing: An Empirical Evaluation of Peptides Search Engines using Ground Truth Datasets (39)
Majdi Maabreh, Ajay Gupta and Izzat Alsmadi

131/102/117/91 Papers: Biological Nerworks I, CIRRUS D

CHAIR: T. PITICHOUTIS

Selecting Optimal Models Based on Efficiency and Robustness in Multi-valued Biological Networks (131)
Hooman Sedghamiz, Wenxiang Chen, Mark Rice, Darrell Whitley, Gordon Broderick

Validity of Biosignal Processing System based on Haar Transform in IoT Application (102)
Yoonsu Shin, Jongseo Lee, Songkuk Kim

Genome Polymorphism Detection Through Relaxed de Bruijin Graph Construction (117)
Masaki Fujimoto, Cole Lyman, Anton Suvorov, Paul Bodily, Quinn Snell, Seth Bybee, Keith Crandall, Mark Clement

Modeling and Experimental Validation of Large Scale Fluorescence Sensor Networks (91)

Vishwa Nellore, Christopher Dwyer

TUESDAY, October 24, 2017

7:30 – 8:50: **Breakfast**

Morning Keynote
8:50 - 9:50 HIjjat Adeli, Ohio State University
CIRRUS AB *Automated EEG Diagnosis*

9:50 – 10:00: 

PAPER SESSIONS 10:00 – 12:00

30/115/104/96 Papers: Boimaging I. CIRRUS AB

CHAIR: N. BOURBAKIS

Augmenting a wireless portable Ultrasound Imaging with a real-time hemodynamics solver (30)

Anne-Cecile Lesage, Marc Garbey

Pixel-ECC Based Laparoscopic Image Alignment In Presence of Large Untextured Regions (115)

Nefeli Lamprinou, Emmanouil Psarakis

Image Enhancement of Routine Biopsies: A Case for Liver Tissue Detection (104)

Nikolaos Giannakeas, Maria Tsimplakidou, Markos Tsipouras, Pinelopi Manousou, Roberta Forlano, Konstantinos Votis, Alexandros Tzallas

Thyroid Nodule Malignancy Prediction by Deep Image Feature Extraction (96)

Xueyan Mei, Xiaomeng Dong, Timothy Deyer, Jingyi Zeng, Theodore Trafalis

TUESDAY, October 24, 2017

110/63/10/93 Papers: Genomes and Bacteria, CIRRUS C

CHAIR: PAUL ANDERSON

Novel Computational Approach for Identification of Highly Mutated Integrated HIV Genomes (110)

Kamil Khanipov, Levent Albayrak, George Golovko, Maria Pimenova, Ioannis Pavlidis, Yuriy Fofanov

Exploration of Natural Alignment Scoring Rules and Clustering Thresholds for Bacterial Core/Pan Genome Analysis (63)

Levent Albayrak, Kamil Khanipov, Mark Rojas, George Golovko, Maria Pimenova, Michael Kosoy, Yuriy Fofanov

A Simulation Study on Light Scattering Effect on Water-borne Bacteriophage Virus Using Mie Analysis (10)

Tamanna Motahar, Rummana Rahman, Rafiya Hossain

Whole Genome Phylogenetic Tree Reconstruction Using Colored de Bruijn Graphs (93)

Cole Lyman, Masaki Fujimoto, Anton Suvorov, Paul Bodily, Quinn Snell, Keith Crandall, Seth Bybee, Mark Clement

110/63/10/93 Papers: Disease Diagnosis, CIRRUS D

CHAIR: DIMITRIS FOTIADIS

Automated Differentiation between Normal Sinus Rhythm, Atrial Tachycardia, Atrial Flutter and Atrial Fibrillation during Electrophysiology (123)

Nauman Razzaq, Shafa-At Ali Sheikh, Tahir Zaidi, Imran Akhtar, Syed Hassaan Ahmed

An mhealth Platform to Evaluate Glycaemic Variability in Type 1 Diabetes (84)

Georgios I. Gogolos, Eleni I. Georga, Evangelos C.Rizos and Dimitrios I. Fotiadis

A Novel Gaussian Discriminant Analysis-based Computer Aided Diagnosis System for Screening Different Stages of Alzheimer's Disease (120)

Chen Fang, Chunfei Li, Mercedes Cabrerizo, Armando Barreto, Jean Andrian, DavidLoewenstein, Ranjan Duara, Malek Adjouadi

TUESDAY, October 24, 2017

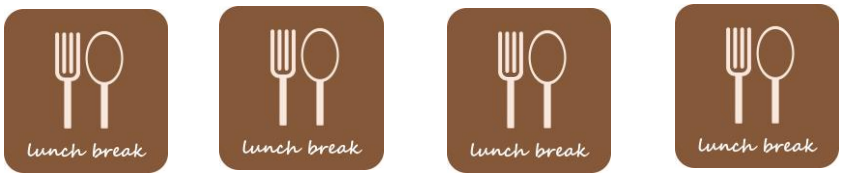
Predicting Heart Failure Patient Events by Exploiting Saliva and Breath Biomarkers Information (81)

Evanthia Tripoliti, Georgia Karanasiou, Fanis Kalatzis, Yorgos Goletsis, Aris Bechlioulis, Silvia Ghimenti, Tommaso Lomonaco, Francesca Bellagambi, Roger Fuoco, Mario Marzilli, Maria Chiara Scali, Katerina Naka, Abdelhamid Errachid, Dimitrios Fotiadis

Performance Evaluation on Machine Learning Classification Techniques for Disease Classification and Forecasting through Data Analytics for Chronic Kidney Disease (CKD) (68)

Weera Hennadige Saumya Dilshani Gunarathne, Dulani Maheshika Perera, Kahandawa Arachchige Dona Chathurangika Padmakumari Kahandawaarachchi

12:00 – 13:30:



Afternoon Keynote
13:30 - 14:30
CIRRUS AB

Dimitris Fotiadis, University of Ioannina
Multiscale Modeling

PAPER SESSIONS 14:30 – 16:30

59/18/14/61/7 Papers: Bioimiging II, CIRRUS AB

CHAIR: N. TSEKOS

Automated Segmentation of Bioabsorbable Stent Struts in Intracoronary Optical Coherence Tomography Images (59)

Junedh Amrute, Lambros Athanasiou, Farhad Rikhtegar, José M. De La Torre Hernández, Tamara García Camarero, Elazer Edelman

Convolutional Neural Network for Combined Classification of Fluorescent Biomarkers and Expert Annotations using White Light Images (18)

Gregory Yauney, Keith Angelino, David Edlund, Pratik Shah

Performance Comparison of HSV and L*a*b* Spaces in Thought Form Image Analysis (14)

Rai Sachindra Prasad

Determination of Dialysis Access Patency Using 2D Angiographic Images (61)

Nischal Koirala, Randolph Setser, Jennifer Bullen, Gordon McLennan

Near-infrared Transillumination Guides Administration of Dental 2D Radiography and CBCT Imaging (7)

Keith Angelino, David Edlund, Gaurav Bhatia, Sharon Wu, Pratik Shah

111/51/12/19 Papers: Protein Structures, CIRRUS C

CHAIR: MIKE PATERSON

Protein structure recognition by means of sequential pattern mining (111)

Anna Ntagiou, Markos Tsipouras, Nikolaos Giannakeas, Konstantinos Votis, Alexandros Tzallas

Optimizing Protein Search Engines using Particle Swarm Optimization (51)

Majdi Maabreh, Basheer Qolomany, AjayGupta, James Springstead

Mining a Synteny-Similarity Graph to Resolve Orthology of Proteins in Fungal Genomes (12)

Christine Kehyayan, Gregory Butler

CALI: A Novel Visual Model for Frequent Pattern Mining in Protein-Ligand Graphs (19)

Susana Medina, Alexandre Fassio, Sabrina Silveira, Carlos Silveira, Raquel de Melo-Minardi

TUESDAY, October 24, 2017

111/51/12/19 Papers: Biosensing - Frames and Tools I, CIRRUS D

CHAIR: NENAD FILIPOVIC

Global Laparoscopy Positioning System with a Smart Trocar (82)
Guillaume Joerger, Albert Huang, Barbara Bass, Brian Dunkin, Marc Garbey

Towards Probabilistic Simulation of Tandem Mass Spectrometry Fragmentation Applied for Peptide Identification (83)
Hatem Loukil, Mohamed Tmar, Mahdi Louati, Afif Masmoudi, Faiez Gargouri

Simulation of Dual Modality Probe (100)
Mahmut Unan, Ahmet Sonmez

Sensitivity Comparison Between Reflection and Transmission Coefficient by Free Space Method for Non-Invasive Glucose Monitoring Sensor (101)
Kento Fujimori, Ning Li, Yasuhiro Sugimoto

Effect of Regional Cellular Uncoupling in pre32
sence of LQTS2 in a 2D Cardiac Tissue (65) *Ponnuraj Kirthi Priya and M. Ramasubba Reddy*

16:30 – 17:00: 

PAPER SESSIONS 17:00 – 19:00

75/38/24/143 Papers: Bioframeworks, CIRRUS AB

CHAIR: IOANNIS PAVLIDIS

A Feature Preserved Mesh Subdivision Framework for Biomedical Mesh (75)
Jing Yang, Yongyi Gong, Hefeng Wu, Qi Li

Dynamic 3D Print of the Breathing Function (38)
Duc Duong, Dvijesh Shastri, Ioannis Pavlidis

TUESDAY, October 24, 2017

A Medical Diagnosis Method Based on Interval-valued Fuzzy Cognitive Map (24)
Li Li, Runtong Zhang, Jun Wang

Coupled Computer Modeling of Atherosclerosis Development in the Coronary Arteries (143)
Nenad Filipovic, Velibor Isailovic, Zarko Milosevic, Dalibor Nikolic, Igor Saveljic, Milica Nikolic, Marija Gacic, Bojana Andjelkovic-Cirkovic, Themis Exarchos, Dimitris Fotiadis, Gualtiero Pelosi, Oberdan Parodi

54/53/26/94 Papers: Biological Networks II, CIRRUS C

CHAIR: HODA RAJAEI

Directed Hungary Greedy Algorithm for Biomolecular Networks Alignment (54)
Jiang Xie, Jiaxin Li, Dongfang Lu, Jiao Wang

Connectivity Dynamics of Interictal Epileptiform Activity (53)
Hoda Rajaei, Mercedes Cabrerizo, Alberto Pinzon, Sergio Gonzalez---Arias, Armando Barreto, Malek Adjouadi

An Efficient Algorithm for Identifying Genomic Structural Inversion with Wide-spectrum of Length (26)
Yu Geng, Zhongmeng Zhao, Xingjian Cui, Xuanping Zhang, Xiao Xiao and Jiayin Wang

Computational Tools for Analysis of Codon Usage in Viral Genomes and its Hosts (94)

Jonathan Xavier, Catherine Putonti, Cristiane Nobre

??/40/132/46 Papers: Biosensing - Frames and Tools II, CIRRUS D

CHAIR: N. TSEKOS

Towards a Modular, Customizable Robotic System for Needle–Based Image–Guided Interventions: Preliminary Designs, Implementation, and Testing (80)

Nikhil V. Navkar, Leonardo Barbosa, Shidin Balakrishnan, Julien Abinahed, Walid El Ansari, Khalid Al-Rumaihi, Adham Darweesh, Abdulla Al-Ansari, Nikolaos V. Tsekos, Mansour Karkoub, Mohamed Gharib

TUESDAY, October 24, 2017

Early Studies of a Transmission Mechanism for MR-Guided Interventions (40)

Haoran Zhao, Xin Liu, Dipan Shah, Habib Zaid, Michael Heffernan, Aaron Becker, Nikolaos Tsekos

Real-time QRS detector using Stationary Wavelet Transform for Automated ECG Analysis (132)

Vignesh Kalidas, Lakshman Tamil

In Silico Assessment of the Effects of Material on Stent Deployment (46)

Karanasiou, Nikolaos Tachos, Antonios Sakellarios, Claire Conway, Lampros Michalis, Elazer Edelman, Dimitrios Fotiadis

19.00 – 21:00: GALA DINNER

WENDSDAY, October 25, 2017

7:30 – 8:50: **Breakfast**

8:50 - 9:50 Doctoral Presentations
CIRRUS AB *Organizing Chair: P. Pitychoutis*

9:50 – 10:00: 

PAPER SESSIONS 10:00 – 12:00

133/95/60/127/74 Papers: Health Condition Analysis, CIRRUS AB

CHAIR: M. ADJOUADI

Analysis of Macrostructure of Sleep Apnea with Respect to Age and Gender Factors on CAP (133)

Amir A Rezaee, Behzad Aliahmad, Pantea Peidaee

Classification of Interictal Epileptiform Discharges using Partial Directed Coherence (95)

Panuwat Janwattanapong, Mercedes Cabrerizo, Chen Fang, Hoda Rajaei, Alberto Pinzon-Ardila, Sergio Gonzalez-Arias, Malek Adjouadi

Identification of Cerebellar Dysarthria with SISO Characterisation (60)

Bipasha Kashyap, David Szmulewicz, Pubudu N. Pathirana, Malcom Horne, Laura Power

Towards Automated Distortion and Health Correlation for Age-related Macular Degeneration (127)

Adithi Chakravarthy, Mahadevan Subramaniam, Parvathi Chundi, Muhammad Hassan and Quan Nguyen

WENDSDAY, October 25, 2017

A Novel Low-Complexity Framework in Ultra-Wideband Imaging for Breast Cancer Detection (74)

Yasaman Ettefagh, Mohammad Hossein Moghaddam, Saeed Vahidian

28/17/36/141 Papers: Biostudies and Assessment, CIRRUS C

CHAIR: AN ZHAO

Clinical Assessment of Brachial-Ankle Pulse Wave Velocity and Stiffness Index: Hypertriglyceridemia Effects on Arterial Stiffness (28)

An Zhao, Yinbao Chong, Hangmei Zhong, Zhaolin Luo, Gaosen Li, Xiaomin Luo and Huan Zhang

Is Central Origin of Muscle Fatigue Distinguished solely in Finger Tapping (17)

Leyla Aydın, Erhan Kiziltan, Ersin Öğüş, Bahadır Azizağaoğlu, Arda Büyükkaraman, Selen Doğan, Gizem Ertürk, Cansel Kuş

Noninvasive Investigation of Excitability Parameters of the Finger Branches of Median Nerve by Threshold Tracking Method (36)

Nizamettin Dalkilic, Seckin Tuncer, Ilksen Burat

Effect of Circulation Chamber Dimensions on Aerosol Delivery Efficiency of a Commercial Dry Powder Inhaler Aerolizer (141)

Tijana Sustercic, Aleksandra Vulovic, Sandra Cvijic, Svetlana Ibric, Nenad Filipovic

28/17/36/141 Papers: Biosensing – Frames and Tools III, CIRRUS D

CHAIR: DUNG PHAN

High Performance Streaming Smith-Waterman Implementation with Implicit Synchronization on Intel FPGA using OpenCL (77)

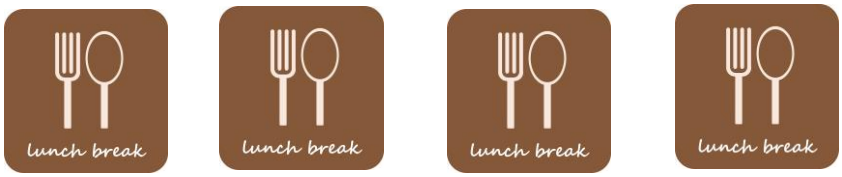
Ernst Houtgast, Vlad-Mihai Sima, Zaid Al-Ars

GPU-Accelerated GATK HaplotypeCaller with Load-Balanced Multi-Process Optimization (37)
Shanshan Ren, Koen Bertels, Zaid Al-Ars

Parkinsonian Axial Movement Capture using Wearable Sensors during the Pull Test (41)
Dung Phan, Malcolm Horne, Parisa Farzanehfar, Pubudu Pathirana, Sajeewani Karunarathne

Implementation of Medical Image Reconstruction Algorithm for Photoacoustic Imaging Using k-wave Toolkit (15)
Enkhbat Batbayar, Ham Woonchul, Enkhbaatar Tumenjargal and Song Chulgyu

12:00 – 13:30:



PAPER SESSIONS 13:30 – 15:30

124/105/85/121 Papers: Healthcare, CIRRUS AB

CHAIR: M. TSIPOURAS

Extracting Modifiable Risk Factors from Narrative Preventive Healthcare Guidelines for EHR Integration (124)
Setu Shah and Xiao Luo

Rule Editor for ARDEN Syntax Generation towards a more Effective Self-Management of Asthma Disease Patients (105)
Markos Tsipouras, Nikolaos Giannakeas, Stefanos Doumpoulakis, Antonis Voulgaridis, Dimitrios Kikidis, Konstantinos Votis and Dimitrios Tzovaras

Public Health Policy for Management of Hearing Impairments based on Big Data Analytics: EVOTION at Genesis (85)
George Spanoudakis, Dimitrios Kikidis, Athanasios Bibas, Panagiotis Katrakazas, Dimitrios Koutsouris and Niels Henrik Pontopidan

Care Coordination: A Systematic Review and a New Perspective (121)
Piyush Jain, Ankur Agarwal and Ravi Behara

WENDSDAY, October 25, 2017

142/144/50/129 Papers: Analysis of Biodata & Health Care, CIRRUS C

CHAIR: NENAD FILIPOVIC

Finite Element Analysis of Femoral Implant Under Static Load (142)
Aleksandra Vulovic, Tijana Sustercic, Nenad Filipovic

Comparative finite element analysis of patient-specific tricuspid and bicuspid aortic valve (144)
Smiljana Djorovic, Aleksandar Milosavljevic, Lazar Velicki, Nenad Filipovic

Delirium Prediction Using Machine Learning Models on Preoperative Electronic Health Records Data (50)
Anis Davoudi, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Alberto C. Bursian, Azra Bihorac, Parisa Rashidi

Gamification in Social Networking: A Platform for People Living with Dementia and their Caregivers (129)
Ioannis Paliokas, Alexandros Tzallas, Nikolaos Katertsidis, Konstantinos Votis, Dimitrios Tzovaras

15:30-16:00: CONFERENCE CLOSING REMARKS