

# BIBE 2014

IEEE 14th International Conference on Bioinformatics and Bioengineering  
10-12 November 2014 | Boca Raton, Florida, USA



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- ❑ Health Informatics Workshop

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## **Main Conference Papers**

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# Papers by Session

## Session A: Gene and Network Analysis

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- ❑ Gene Networks Inference through One Genetic Algorithm Per Gene  
*Ray Dueñas Jimenez, David Correa Martins-Jr, and Carlos Silva Santos*
- ❑ Network-Based Disease Gene Prioritization by Hitting Time Analysis  
*Leandro de A. Lima, Sérgio Nery Simões, Ronaldo Fumio Hashimoto, David C. Martins Junior, Helena Brentani, and Guilherme O. Mota*
- ❑ Multiview Clustering on PPI Network for Gene Selection and Enrichment from Microarray Data  
*Tripti Swarnkar, Sérgio Nery Simões, David Correa Martins Jr, Anji Anurak, Helena Brentani, Ronaldo Fumio Hashimoto, and Pabitra Mitra*
- ❑ Delayed and Hidden Variables Interactions in Gene Regulatory Networks  
*Mina Moradi Kordmahalleh, Mohammad Gorji Sefidmazgi, Abdollah Homaifar, Ali Karimoddini, Anthony Guiseppi-Elie, and Joseph L. Graves Jr.*

# Papers by Session

## Session B: Advanced Learning for Biomedical Data

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- ❑ A Novel Semi-Supervised Deep Learning Framework for Affective State Recognition on EEG Signals  
*Xiaowei Jia, Kang Li, Xiaoyi Li, and Aidong Zhang*
- ❑ Multi-block and Multi-task Learning for Integrative Genomic Study  
*Mingon Kang, Dong-Chul Kim, Chunyu Liu, Baoju Zhang, Xiaoyong Wu, and Jean Gao*
- ❑ Analysis of Acoustic Cardiac Signals for Heart Rate Variability and Murmur Detection Using Nonnegative Matrix Factorization-Based Hierarchical Decomposition  
*Ghafoor Shah, Peter Koch, and Constantinos B. Papadias*
- ❑ Measures of Entropy and Change Point Analysis as Predictors of Post-Surgical Adverse Outcomes  
*Zachary Turner, Timothy Carroll, and Donald E. Brown*

# Papers by Session

## Session C: Bio-Imaging and Pattern Recognition

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- ❑ Ultrasound Image Despeckling/Denoising Based on a Novel Multi-transducer Architecture  
*Michail Tsakalakis and Nikolaos G. Bourbakis*
- ❑ Multi-object Tracking Based on Particle Probability Hypothesis Density Tracker in Microscopic Video  
*Chunmei Shi, Lingling Zhao, Peijun Ma, Xiaohong Su, Junjie Wang, and Chiping Zhang*
- ❑ A Local Adaptive Segmentation of Vascular Network from Abnormal Retinal Images  
*Zhangwei Jiang, Jing He, Yanchun Zhang, and Shang Hu*
- ❑ Evaluation of Hand Bacteria as a Human Biometric Identifier  
*Amanda B. Holbert, Holly P. Whitelam, Letha J. Sooter, and Jeremy M. Dawson*



# Papers by Session

## Session D: Privacy, Security, and Personalized Diagnose

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- ❑ Privacy Preserving Calculation of Fisher Criterion Score for Informative Gene Selection  
*Suxin Guo, Sheng Zhong, and Aidong Zhang*
- ❑ NMF-Based LncRNA-Disease Association Inference and Bi-Clustering  
*Ashis Kumer Biswas, Jean X. Gao, Baoju Zhang, and Xiaoyong Wu*
- ❑ A New Approach to Multimedia Files Carving  
*Weidong Qiu, Run Zhu, Jie Guo, Xiaoming Tang, Bozhong Liu, and Zheng Huang*
- ❑ Physiological and Psychological Changes during Breathing Control Using Illuminance Changes with Different Cycles  
*K. Moriura and H. Hagiwara*
- ❑ Toward Genomic Based Personalized Mathematical Models for Breast Cancer Tumor Growth  
*Aydin Saribudak, Emir Ganic, Jianmin Zou, Stephen Gundry, and M. Ümit Uyar*

# Papers by Session

## Session E: Bio-Engineering Systems

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- ❑ A Wearable Accelerometer System for Unobtrusive Monitoring of Parkinson's Disease Motor Symptoms  
*Faisal M. Khan, Michael Barnathan, Michael Montgomery, Stanely Myers, Lucien Côté, and Sheree Loftus*
- ❑ A VHDL Based Controller Design for Non-contact Temperature and Breathing Sensors Suitable for Crib  
*Dat Tran, Kiet Duong, and Ujjal K. Bhowmik*
- ❑ Prototype of a Wheelchair Controlled by Cervical Movements  
*Angelo Zerbetto Neto, Alexandre Mesquita, Marilda Machado Spindola, and Marcos Magnani*
- ❑ Design of an e-Health Respiration and Body Posture Monitoring System and Its Application for Rib Cage and Abdomen Synchrony Analysis  
*Atena Roshan Fekr, Katarzyna Radecka, and Zeljko Zilic*

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- ❑ Evaluation of Wrapper-Based Feature Selection Using Hard, Moderate, and Easy Bioinformatics Data  
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- ❑ Using Correlation-Based Feature Selection for a Diverse Collection of Bioinformatics Datasets  
*Randall Wald, Taghi M. Khoshgoftaar, and Amri Napolitano*
- ❑ New Feature Weighting Technique for Predicting Protein Subcellular Localization  
*Hisham Al-Mubaid and Duong B. Nguyen*
- ❑ A Genetic Algorithm for the Selection of Features Used in the Prediction of Protein Function  
*Larissa Fernandes Leijôto, Thiago Assis De Oliveira Rodrigues, Luis Enrique Záratey, and Cristiane Neri Nobre*
- ❑ On the Filtering of Photoplethysmography Signals  
*Adewale Emmanuel Awodeyi, Stephen R. Alty, and Mohammad Ghavami*

# Papers by Session

## Session G: Gene Discovery and Identification

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- ❑ miRNA Based Pathway Analysis Tool in Nephroblastoma as a Proof of Principle for other Cancer Domains  
*L. Koumakis, G. Potamias, S. Sfakianakis, V. Moustakis, M. Zervakis, N. Graf, and M. Tsiknakis*
- ❑ Essential Gene Identification for a Microarray Data of Yersinia Pestis  
*Lianfen Qian, Wei Zhang, and Zhongwei Li*
- ❑ Disease-Gene Association Using a Genetic Algorithm  
*Koosha Tahmasebipour and Sheridan Houghten*
- ❑ A New, Dynamic-Representation-Based Gene Finding Method with an Analysis of False Positive Peaks  
*Sajid A. Marhon and Stefan C. Kremer*

# Papers by Session

## Session H: Biomedical Documents and Multi-source Mining

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- ❑ Analysis of the Suitability of Existing Medical Ontologies for Building a Scalable Semantic Interoperability Solution Supporting Multi-site Collaboration in Oncology  
*Ahmed Ibrahim, Anca Bucur, Andre Dekker, M. Scott Marshall, David Perez-Rey, Raul Alonso-Calvo, Holger Stenzhorn, Sheng Yu, Cyril Krykwinski, Anouar Laarif, and Keyur Mehta*
- ❑ An Improved Ratio-Based (IRB) Batch Effects Removal Algorithm for Cancer Data in a Co-Analysis Framework  
*Shuchu Ham, Hong Qin, and Dantong Yu*
- ❑ Investigating Distributed Approaches to Efficiently Extract Textual Evidences for Biomedical Ontologies  
*Long Cheng and Yue Ma*
- ❑ Causal Association Mining from Geriatric Literature  
*Anand Krishnan, Jon Sligh, Eric Tinsley, Natalie Crohn, Jean Bandos, Heather Bush, Jason Depasquale, and Mathew Palakal*

# Papers by Session

## Session I: Gene and Protein Networks

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- ❑ Optimization and Analysis of Seriation Algorithm for Ordering Protein Networks  
*Felipe A. Kuentzer, Alexandre S. Pereira, Alexandre M. Amory, Gabriel Perrone, Samoel R.M. Silva, João M. Dinis, and Rita M.C. Almeida*
- ❑ Integration of DNA Methylation, Copy Number Variation, and Gene Expression for Gene Regulatory Network Inference and Application to Psychiatric Disorders  
*Dong-Chul Kim, Mingon Kang, Baoju Zhang, Xiaoyong Wu, Chunyu Liu, and Jean Gao*
- ❑ Gene Networks Inference through Linear Grouping of Variables  
*Carlos Fernando Montoya-Cubas, David Correa Martins Jr, Carlos Silva Santos, and Junior Barrera*
- ❑ STRING PPI Score to Characterize Protein Subnetwork Biomarkers for Human Diseases and Pathways  
*Prayas Timalisina, Kevin Charles, and Ananda Mohan Mondal*

# Papers by Session

## Session J: Bio-Engineering and Decision Support Systems (I)

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- ❑ Safe Implementation of Embedded Software for a Portable Device Supporting Drug Administration  
*Alena Simalatsar, Romain Bornet, Wenqi You, Yann Thoma, and Giovanni De Micheli*
- ❑ Computer Simulation of Hot Caloric Test Response in the Three Semicircular Canal  
*Nenad Filipovic, Igor Saveljic, and Zarko Milosevic*
- ❑ Proactive Real-Time Solution for Asthma Management  
*Subrata Acharya and Reza Sarraf*
- ❑ An Ontology-Based Framework for Analysis Recommendation  
*Gabriela Henriques and Deborah Stacey*

# Papers by Session

## Session K: Bio-Signal Processing (I)

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- ❑ A New CPXR Based Logistic Regression Method and Clinical Prognostic Modeling Results Using the Method on Traumatic Brain Injury  
*Vahid Taslimitehrani and Guozhu Dong*
- ❑ Detection and Removal of Muscle Artifacts from Scalp EEG Recordings in Patients with Epilepsy  
*Maria Anastasiadou, Avgis Hadjipapas, Manolis Christodoulakis, Eleftherios S. Papathanasiou, Savvas S. Papacostas, and Georgios D. Mitsis*
- ❑ Fusion of EEG Topographic Features and fMRI Using Canonical Partial Least Squares  
*Kostas Michalopoulos and Nikolaos G. Bourbakis*
- ❑ Selecting the Appropriate Data Sampling Approach for Imbalanced and High-Dimensional Bioinformatics Datasets  
*David J. Dittman, Taghi M. Khoshgoftaar, and Amri Napolitano*
- ❑ Median Based Method for Baseline Wander Removal in Photoplethysmogram Signals  
*Adewale Emmanuel Awodeyi, Stephen R. Alty, and Mohammad Ghavami*



# Papers by Session

## Session L: Bio-Engineering and Decision Support Systems (II)

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- ❑ Numerical Assessment of Turbulent Flow Downstream of Stenosed Aortic Valve with Flexible Leaflets Using Fluid-Solid Interactions Approach  
*Armin Amindari and Huseyin Çağatay Yalçın*
- ❑ Diagnosis of Diabetes Using a Weight-Adjusted Voting Approach  
*Lin Li*
- ❑ On Sorting under Special Transpositions  
*Jici Huang and Swapnoneel Roy*
- ❑ An Associative Classification Based Approach for Detecting SNP-SNP Interactions in High Dimensional Genome  
*Suneetha Uppu, Aneesh Krishna, and Raj P. Gopalan*

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## Session M: Bio-Signal Processing (II)

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- ❑ Effect of Blood Rheological Models on Patient Specific Cardiovascular System Simulations  
*Anastasios Skiadopoulos, Panagiotis Neofytou, and Christos Housiadas*
- ❑ Analysis of Cognitive Load—Importance of EEG Channel Selection for Low Resolution Commercial EEG Devices  
*Aniruddha Sinha, Debatri Chatterjee, Diptesh Das, and Arijit Sinharay*
- ❑ Fuzzy Estimation of Liver Stiffness in Modelling Liver Deformation  
*Tan Sing Yee, Sarinder K. Dhillon, and Amandeep S. Sidhu*
- ❑ Effect of Multi-K Contig Merging in de novo DNA Assembly  
*Mohammad Goodarzi, Sheridan Houghten, and Ping Liang*

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## **Workshop Papers**

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## Big Data and Data Analytics Workshop

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- ❑ Network Traffic Prediction Models for Near- and Long-Term Predictions  
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- ❑ A Session Based Approach for Aggregating Network Traffic Data—The SANTA Dataset  
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- ❑ Machine Learning for Detecting Brute Force Attacks at the Network Level  
*Maryam M. Najafabadi, Taghi M. Khoshgoftaar, Clifford Kemp, Naeem Seliya, and Richard Zuech*
- ❑ Universal Physical Access Control System  
*Bassem Alhalabi and Clyde Carryl*

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## Health Informatics Workshop

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- ❑ Predictive Modeling for Wellness and Chronic Conditions  
*Ravi S. Behara, Ankur Agarwal, Pranitha Pulumati, Ritesh Jain, and Vinaya Rao*
- ❑ Domain Independent Natural Language Processing—A Case Study for Hospital Readmission with COPD  
*Ankur Agarwal, Ravi S. Behara, Sirish Mulpura, and Vivek Tyagi*
- ❑ Predictive Modeling for Organ Transplantation Outcomes  
*Vinaya Rao, Ravi S. Behara, and Ankur Agarwal*
- ❑ MRI Reliability in Correlating Clinical Findings of Trigeminal Neuralgia  
*Christopher J. de la Houssaye, Sirish Mulpura, and Steven J. Deprima*
- ❑ Select-Bagging: Effectively Combining Gene Selection and Bagging for Balanced Bioinformatics Data  
*David J. Dittman, Taghi M. Khoshgoftaar, Amri Napolitano, and Alireza Fazelpour*
- ❑ Effects of the Use of Boosting on Classification Performance of Imbalanced Bioinformatics Datasets  
*Taghi M. Khoshgoftaar, Alireza Fazelpour, David J. Dittman, and Amri Napolitano*

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*Micheal Hwang, Patricio Rossi, and Sirish Mulpura*
- ❑ Activity Analysis and Detection of Repetitive Motion in Autistic Patients  
*Bassem Alhalabi, Clyde Carryl, and Mirjana Pavlovic*

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- ❑ NMF-Based LncRNA-Disease Association Inference and Bi-Clustering

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- ❑ Safe Implementation of Embedded Software for a Portable Device Supporting Drug Administration

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- ❑ Ultrasound Image Despeckling/Denoising Based on a Novel Multi-transducer Architecture
- ❑ Fusion of EEG Topographic Features and fMRI Using Canonical Partial Least Squares

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## **Brentani, Helena**

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- Network-Based Disease Gene Prioritization by Hitting Time Analysis
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- Measures of Entropy and Change Point Analysis as Predictors of Post-Surgical Adverse Outcomes

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## **Bush, Heather**

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- Causal Association Mining from Geriatric Literature

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- Activity Analysis and Detection of Repetitive Motion in Autistic Patients

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## **Crohn, Natalie**

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- ❑ Causal Association Mining from Geriatric Literature

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## **Das, Diptesh**

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- Analysis of Cognitive Load—Importance of EEG Channel Selection for Low Resolution Commercial EEG Devices

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- Evaluation of Hand Bacteria as a Human Biometric Identifier

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- Safe Implementation of Embedded Software for a Portable Device Supporting Drug Administration

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## **Dekker, Andre**

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- ❑ Analysis of the Suitability of Existing Medical Ontologies for Building a Scalable Semantic Interoperability Solution Supporting Multi-site Collaboration in Oncology

## **Depasquale, Jason**

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- ❑ Causal Association Mining from Geriatric Literature

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- ❑ MRI Reliability in Correlating Clinical Findings of Trigeminal Neuralgia

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