

## Prasanth Ganesan

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### Bio

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#### LINKS

- Computational Arrhythmia Research Lab: <http://web.stanford.edu/group/narayanlab/cgi-bin/wordpress/>

### Publications

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#### PUBLICATIONS

- **Spatially Conserved Spiral Wave Activity During Human Atrial Fibrillation.** *Circulation. Arrhythmia and electrophysiology*  
Rappel, W. J., Baykaner, T., Zaman, J., Ganesan, P., Rogers, A. J., Narayan, S. M.  
2024: e012041
- **Segmenting computed tomograms for cardiac ablation using machine learning leveraged by domain knowledge encoding.** *Frontiers in cardiovascular medicine*  
Feng, R., Deb, B., Ganesan, P., Tjong, F. V., Rogers, A. J., Ruipérez-Campillo, S., Somani, S., Clopton, P., Baykaner, T., Rodrigo, M., Zou, J., Haddad, F., Zahari, et al  
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- **Quantifying a spectrum of clinical response in atrial tachyarrhythmias using spatiotemporal synchronization of electrograms.** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*  
Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Rogers, A. J., Clopton, P., Wang, P. J., Zeemering, S., Schotten, U., Rappel, W., Narayan, S. M.  
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- **VENTRICULAR TACHYCARDIA PREDICTS ATRIAL FIBRILLATION RECURRENCE POST ABLATION: A PROPENSITY SCORE-MATCHED ANALYSIS OF A LARGE PROSPECTIVE STUDY**  
Azizi, Z., Deb, B., Feng, R., Ganesan, P., Rogers, A. J., Chang, H., Clopton, P., Narayan, S. M.  
ELSEVIER SCIENCE INC.2023: 186
- **OBSTRUCTIVE SLEEP APNEA PORTENDS STROKE IN YOUNG INDIVIDUALS WITHOUT ATRIAL FIBRILLATION: A LARGE REGISTRY STUDY**  
Deb, B., Vasireddi, S., Bhatia, N. K., Rogers, A. J., Clopton, P., Baykaner, T., Ganesan, P., Feng, R., Azizi, Z., Narayan, S. M.  
ELSEVIER SCIENCE INC.2023: 130
- **Predicting acute termination and non-termination during ablation of human atrial fibrillation using quantitative indices.** *Frontiers in physiology*  
Kappel, C., Reiss, M., Rodrigo, M., Ganesan, P., Narayan, S. M., Rappel, W. J.  
2022; 13: 939350
- **Atrial fibrillation signatures on intracardiac electrograms identified by deep learning.** *Computers in biology and medicine*  
Rodrigo, M., Alhusseini, M. I., Rogers, A. J., Krittanawong, C., Thakur, S., Feng, R., Ganesan, P., Narayan, S. M.  
2022; 145: 105451
- **TARGETING SYNCHRONIZED ELECTROGRAM ISLANDS WITHIN ATRIAL FIBRILLATION FOR ABLATION**  
Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Bhatia, N. K., Rogers, A. J., Clopton, P., Rappel, W., Narayan, S. M.  
ELSEVIER SCIENCE INC.2022: 3
- **A MORPHOLOGICAL OPERATION-BASED APPROACH TO AUTOMATICALLY SEPARATE AND LABEL LEFT ATRIUM BODY AND PULMONARY VEINS**

Feng, R., Ganesan, P., Deb, B., Rogers, A. J., RUIPEREZ-CAMPILLO, S., Rodrigo, M., Zaharia, M., Clopton, P., Rappel, W., Narayan, S. M.  
ELSEVIER SCIENCE INC.2022: 1244

● **UNSUPERVISED MACHINE LEARNING IDENTIFIES PHENOTYPES FOR ATRIAL FIBRILLATION THAT PREDICT ACUTE ABLATION SUCCESS**

Deb, B., Ganesan, P., Feng, R., Bhatia, N. K., Rogers, A. J., RUIPEREZ-CAMPILLO, S., Clopton, P., Narayan, S. M.  
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● **Deep learning model calibration for improving performance in class-imbalanced medical image classification tasks.** *PloS one*

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● **Identifying Atrial Fibrillation Mechanisms for Personalized Medicine.** *Journal of clinical medicine*

Deb, B., Ganesan, P., Feng, R., Narayan, S. M.  
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● **CONSISTENT SPATIOTEMPORAL VECTORS IN ATRIAL FIBRILLATION PREDICT RESPONSE TO ABLATION**

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● **CLASSIFICATION OF INDIVIDUAL ATRIAL INTRACARDIAC ELECTROGRAMS BY DEEP LEARNING**

Rodrigo, M., Rogers, A., Ganesan, P., Krittanawong, C., Alhusseini, M., Narayan, S.  
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● **PROBING MACHINE LEARNING TO SEPARATE ATRIAL FIBRILLATION FROM OTHER ARRHYTHMIAS**

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● **MACHINE LEARNING CLASSIFIES INTRACARDIAC ELECTROGRAMS OF ATRIAL FIBRILLATION FROM OTHER ARRHYTHMIAS**

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2020; 19 (1): 27

● **Re-evaluating The Multiple Wavelet Hypothesis for Atrial Fibrillation.** *Heart rhythm*

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● **Locating Atrial Fibrillation Rotor and Focal Sources Using Iterative Navigation of Multipole Diagnostic Catheters** *CARDIOVASCULAR ENGINEERING AND TECHNOLOGY*

Ganesan, P., Cherry, E. M., Huang, D. T., Pertsov, A. M., Ghoraani, B.  
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- **Assessment of Data Augmentation Strategies Toward Performance Improvement of Abnormality Classification in Chest Radiographs.** *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference*  
Ganesan, P., Rajaraman, S., Long, R., Ghoraani, B., Antani, S.  
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- **Simulation of Spiral Waves and Point Sources in Atrial Fibrillation with Application to Rotor Localization**  
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