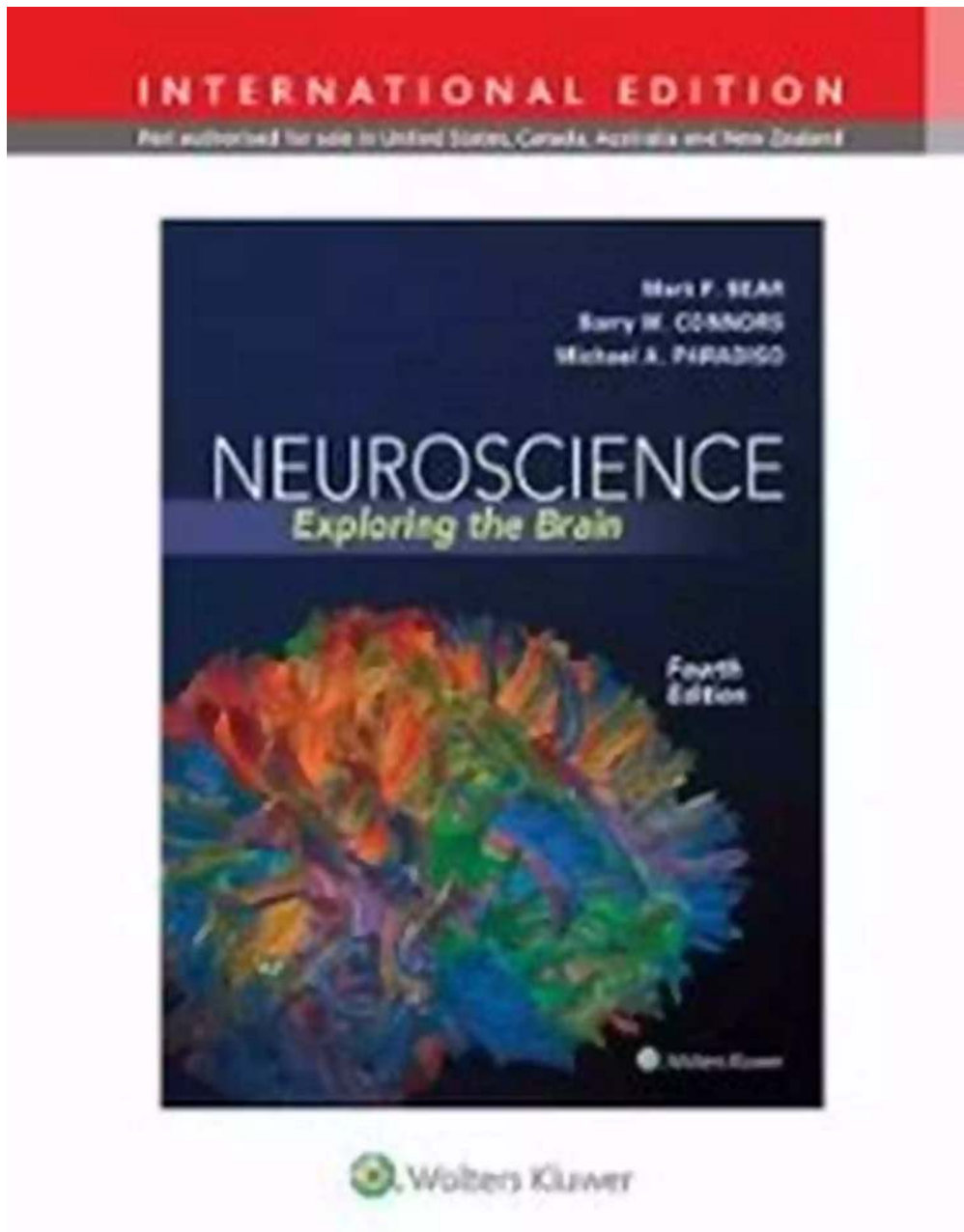


# The 4th International Workshop Braincomp 2019: Exploring the Fascinating World of Computational Neuroscience in Cetraro, Italy

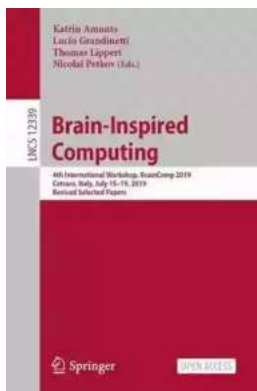


Computational neuroscience is an interdisciplinary field that combines neurobiology, physics, mathematics, and computer science to unravel the

mysteries of the human brain. In the pursuit of understanding how the brain processes information and gives rise to cognition, researchers from around the globe gather annually for the International Workshop Braincomp. This year, the 4th edition of the workshop took place in the beautiful coastal town of Cetraro, Italy, from July 15th to July 19th, 2019.

## A Unique Gathering of Brilliant Minds

The 4th International Workshop Braincomp 2019 brought together leading researchers, scholars, and practitioners from various disciplines to explore the latest advances in computational neuroscience. The workshop provided a platform for participants to share their knowledge, exchange ideas, and collaborate on cutting-edge research projects.



### Brain-Inspired Computing: 4th International Workshop, BrainComp 2019, Cetraro, Italy, July 15–19, 2019, Revised Selected Papers (Lecture Notes in Computer Science Book 12339)

by Karin Müller (Kindle Edition)

★★★★☆ 4.7 out of 5

Language : English  
File size : 22827 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Print length : 167 pages  
Screen Reader : Supported



The workshop featured a diverse range of topics, including but not limited to:

- Neurophysiology and neural coding

- Neural circuits and systems
- Brain-inspired computing models
- Machine learning and artificial intelligence
- Neuroimaging and brain mapping
- Neuroinformatics and data analysis

With such a wide array of topics, attendees were able to delve into their specific areas of interest while also gaining valuable insights from other domains within the field.

## **The Beautiful Setting of Cetraro, Italy**

Cetraro, situated on the Tyrrhenian coast of Calabria, provided the perfect backdrop for the workshop. Attendees had the opportunity to immerse themselves in the stunning natural beauty of Italy while engaging in intellectually stimulating discussions.

The town itself is rich in history and culture, boasting ancient churches, picturesque streets, and breathtaking views of the sea. Participants were treated to authentic Italian cuisine, savoring the flavors of fresh seafood, traditional pasta dishes, and delectable gelato.

During breaks from the workshop, attendees could explore the nearby sandy beaches, take a swim in the crystal-clear waters, or simply relax and enjoy the Mediterranean sun. The tranquil surroundings helped create an atmosphere conducive to collaboration and innovation.

## **Highlights from the Workshop**

The 4th International Workshop Braincomp 2019 featured an impressive lineup of renowned speakers who shared their expertise and insights with the attendees. Keynote lectures by distinguished researchers covered a wide range of topics, providing inspiration for further exploration and research.

One notable keynote lecture was delivered by Dr. Katherine Johnson, a leading computational neuroscientist from MIT. Dr. Johnson discussed her groundbreaking research on neural circuitry and how it can be leveraged to develop advanced machine learning algorithms. Her talk left the audience captivated, opening up new avenues for future collaborations and research directions.

In addition to the keynote lectures, the workshop also included paper presentations, poster sessions, and interactive workshops. Attendees had the opportunity to present their own research findings, receive feedback, and engage in meaningful discussions with their peers.

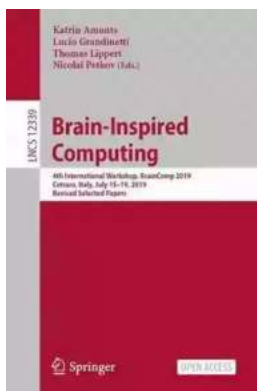
## **The Future of Computational Neuroscience**

The 4th International Workshop Braincomp 2019 provided valuable insights into the current state of computational neuroscience and offered a sneak peek into the future of the field. The workshop highlighted the increasing role of machine learning and artificial intelligence in understanding brain functioning and how it can be harnessed to develop innovative technologies.

As researchers continue to unravel the mysteries of the brain, computational neuroscience will undoubtedly play a pivotal role in shaping the future of healthcare, technology, and our understanding of human cognition. The workshop served as a platform for researchers to collaborate, share knowledge, and ignite new ideas, paving the way for exciting discoveries in the years to come.

The 4th International Workshop Braincomp 2019 was a resounding success, bringing together brilliant minds from around the world to explore the fascinating world of computational neuroscience. The workshop not only provided a platform for sharing knowledge and research findings, but it also fostered collaborations and sparked new ideas.

With its idyllic location in Cetraro, Italy, and a diverse range of thought-provoking topics, the workshop created an environment perfectly suited for intellectual exploration and stimulating discussions. As computational neuroscience continues to advance, the International Workshop Braincomp will undoubtedly remain a vital gathering for researchers, propelling advancements in our understanding of the human brain.



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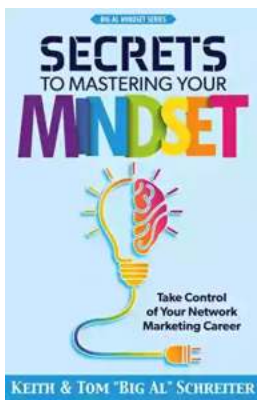
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This open access book constitutes revised selected papers from the 4th International Workshop on Brain-Inspired Computing, BrainComp 2019, held in Cetraro, Italy, in July 2019.

The 11 papers presented in this volume were carefully reviewed and selected for inclusion in this book. They deal with research on brain atlasing, multi-scale models and simulation, HPC and data infra-structures for neuroscience as well as artificial and natural neural architectures.



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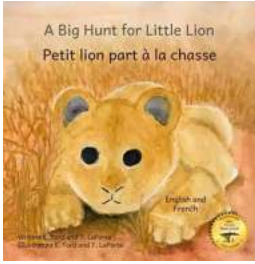
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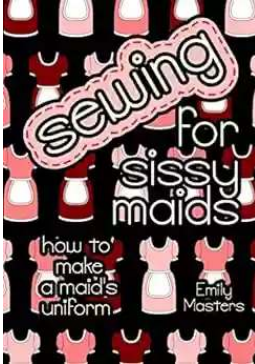
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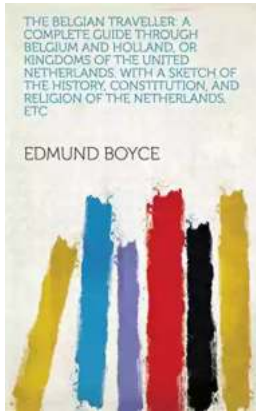
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