

Author index

- Al-Owais, A. – 95
Álvarez, M. – 98
Araya, I. – 107
Arcos, C. – 107
- Bae, J. – 101
Bellinger, E. P. – 104
Bhardwaj, A. – 104
Birkinshaw, M. – 127
Boudart, V. – 73
- Cabrera, G. – 50
Caiza, R. – 129
Caudill, S. – 73
Cavieres, J. – 107
Celedon, L. – 107
Curé, M. – 107
- Dafonte, C. – 98
- Erazo, D. – 129
Escarate, P. – 107
- Farias, G. – 107
Fernini, I. – 95
Ferrerías, I. – 58
Ford, E. B. – 1
Forero-Romero, J. – 91
Fraix-Burnet, D. – 63
- Garabato, D. – 98
Ghaziasgar, S. – 67
Goode, S. R. – 40
Grespan, M. – 110
Gutiérrez, O. – 129
- Hasan, P. – 86, 125
Hasan, S. N. – 86, 125
Hložek, R. – 11
Hong, S. E. – 50
Huertas-Company, M. – 116
- Ibarra-Medel, H. – 116
- Javadi, A. – 67
- Kanbur, S. M. – 104
Khosravaninezhad, N. – 67
Khosroshahi, H. G. – 67
Kim, K. – 113
Knapen, J. H. – 116
- Lacerda, E. – 116
Lahav, O. – 28, 58
Lopez, M. – 73
- Machuca, N. – 107
Madhanpall, N. – 56
Mahmudunnobe, M. – 86, 125
Manousakis, A. – 95
Manteiga, M. – 98
Marconi, M. – 104
Masoudnezhad A. – 67
- Nakazono, L. – 50
- Olivares, E. – 107
Ortega, J. – 129
- Pallas, L. – 98
Parkinson, D. – 50, 80
Pearson, W. J. – 119
Pezoa, R. – 107
Pillepich, A. – 116
Polsterer, K. – 56
- Raja, M. – 86, 125
Rózański, T. – 122
- Saifuddin, M. – 86
Sánchez, S. F. – 116
Santoveña, R. – 98
Sarmiento, R. – 116
Schmidt, S. – 73
Segal, G. – 80
Sharif, M. – 95
Silk, J. – 58
Somerville, R. S. – 58
Stewart, H. – 127
Suárez-Pérez, J. F. – 91
Suelves, L. E. – 119
- Ting, Y.-S. – 50
- van Loon, J. T. – 67
Vásquez, N. – 129
- Walmsley, M. – 56
Webb, S. A. – 40
- Yeung, J. – 127
Yu, A. M. – 132
- Zucker, S. – 56

IAU Symposium 368

2–4 August 2022
Busan, Republic of Korea

Machine Learning in Astronomy: Possibilities and Pitfalls

Today's astronomical observatories are generating more data than ever, from surveys to deep images. Machine learning methods can be a powerful tool to harness the full potential of these new observatories, as well as large archives that have accumulated. However, users should beware of common pitfalls, including bias in data sets and overfitting. IAU Symposium 368 addresses graduate students, teachers and professional astronomers who would like to leverage machine learning to unlock these huge volumes of data. Researchers pushing the frontiers of these methods share best practices in applied machine learning. While this volume is focused on astronomy applications, the methodological insights provided are relevant to all data-rich fields. Machine learning novices and expert users will find and benefit from these fresh new insights.

Proceedings of the International Astronomical Union
Editor in Chief: Prof. José Miguel Rodríguez Espinosa
This series contains the proceedings of major scientific meetings held by the International Astronomical Union. Each volume contains a series of articles on a topic of current interest in astronomy, giving a timely overview of research in the field. With contributions by leading scientists, these books are at a level suitable for research astronomers and graduate students.

International Astronomical Union



Proceedings of the International Astronomical Union

Cambridge Core

For further information about this journal please

go to the journal website at:

cambridge.org/iau

CAMBRIDGE
UNIVERSITY PRESS

ISBN 978-1-109-34519-4



9 781009 345194