Science: Image In Action - Proceedings Of The 7th International Workshop On Data Analysis In Astronomy "Livio Scarsi And Vito Digesu" (Hardback)

By -

World Scientific Publishing Co Pte Ltd, Singapore, 2011. Hardback. Condition: New. Language: English. Brand new Book. The book gathers articles that were exposed during the seventh edition of the Workshop "Data Analysis in Astronomy". It illustrates a current trend to search for common expressions or models transcending usual disciplines, possibly associated with some lack in the Mathematics required to model complex systems. In that, data analysis would be at the epicentre and a key facilitator of some current integrative phase of Science.It is all devoted to the question of "representation in Science", whence its name, IMAGe IN AcTION, and main thrustsSuch a classification makes concepts as "complexity" or "dynamics" appear like transverse notions: a measure among others or a dimensional feature among others.Part A broadly discusses a dialogue between experiments and information, be information extracted-from or brought-to experiments. The concept is fundamental in statistics and tailors to the emergence of collective behaviours. Communication then asks for uncertainty considerations - noise, indeterminacy or approximation - and its wider impact on the couple perception-action. Clustering being all about uncertainty handling, data set representation appears not to be the only solution: Introducing hierarchies with adapted metrics, a priori pre-improving the data resolution are...

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