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information usually comes in pieces from different sources it refers to different but related questions therefore information needs to be aggregated and focused onto the relevant questions considering combination and focusing of information as the relevant operations leads to a generic algebraic structure for information this book introduces and studies information from this algebraic point of view algebras of information provide the necessary abstract framework for generic inference procedures they allow the application of these procedures to a large variety of different formalisms for representing information at the same time they permit a generic study of conditional independence a property considered as fundamental for knowledge presentation information algebras provide a natural framework to define and study uncertain information uncertain information is represented by random variables that naturally form information algebras this

theory also relates to probabilistic assumption based reasoning in information systems and is the basis for the belief functions in the dempster shafer theory of evidence

in the summer of 1956 john mccarthy organized the famous dartmouth conference which is now commonly viewed as the founding event for the field of artificial intelligence during the last 50 years ai has seen a tremendous development and is now a well established scientific discipline all over the world also in europe ai is in excellent shape as witnessed by the large number of high quality papers in this publication in comparison with ecai 2004 there s a strong increase in the relative number of submissions from distributed ai agents and cognitive modelling knowledge representation reasoning is traditionally strong in europe and remains the biggest area of ecai 06 one reason the figures for case based reasoning are rather low is that much of the high quality work in this area has found its way into prestigious applications and is thus represented under the heading of pais

this book constitutes the refereed proceedings of the 24th conference on artificial intelligence canadian ai 2011 held in st john s canada in may 2011 the 23 revised full papers presented together with 22 revised short papers and 5 papers from the graduate student symposium were carefully reviewed and selected from 81 submissions the papers cover a broad range of topics presenting original work in all areas of artificial intelligence either theoretical or applied

noncommutative algebra universal algebra symmetric functions and matrix invariants polynomial maps azumaya algebras and irreducible representations tensor symmetry growth shirshov s theorem 2×2 matrices matrix identities structure theorems invariants and trace identities involutions and matrices a geometric approach spectrum and dimension the nilpotent radical finite dimensional and affine pi algebras the relatively free algebras identities and superalgebras the specht problem the pi exponent codimension growth for matrices codimension growth for algebras satisfying a capelli identity

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