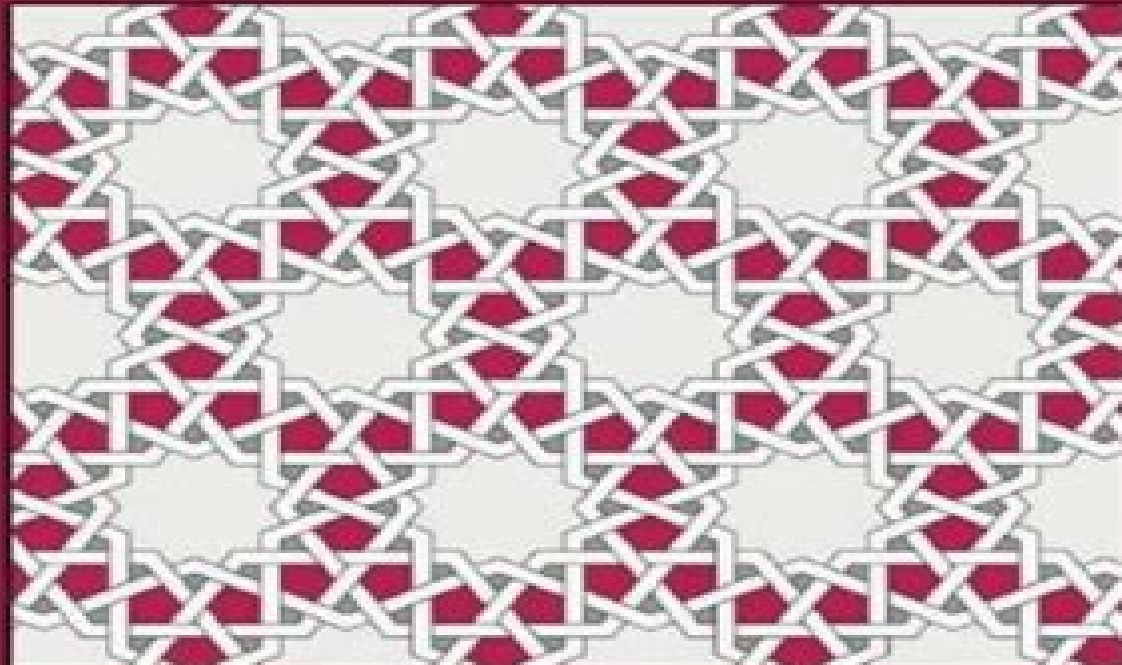


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# A Second Course in Formal Languages and Automata Theory



**JEFFREY SHALLIT**

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held in London ON Canada in July 2014 The 31 revised full papers were carefully reviewed and selected from 79 submissions The papers cover a wide range of topics including among others molecular quantum optical and chaos computing as well as neural computation evolutionary computation swarm intelligence and computational neuroscience Formal Languages, Automata and Numeration Systems 2 Michel Rigo, 2014-09-10 The interplay between words computability algebra and arithmetic has now proved its relevance and fruitfulness Indeed the cross fertilization between formal logic and finite automata such as that initiated by J R B chi or between combinatorics on words and number theory has paved the way to recent dramatic developments for example the transcendence results for the real numbers having a simple binary expansion by B Adamczewski and Y Bugeaud This book is at the heart of this interplay through a unified exposition Objects are considered with a perspective that comes both from theoretical computer science and mathematics Theoretical computer science offers here topics such as decision problems and recognizability issues whereas mathematics offers concepts such as discrete dynamical systems The main goal is to give a quick access for students and researchers in mathematics or computer science to actual research topics at the intersection between automata and formal language theory number theory and combinatorics on words The second of two volumes on this subject this book covers regular languages numeration systems formal methods applied to decidability issues about infinite words and sets of numbers *Language and Automata Theory and Applications* Adrian-Horia Dediu, Carlos Martín-Vide, Shunsuke Inenaga, 2011-05-19 This book constitutes the refereed proceedings of the 5th International Conference on Language and Automata Theory and Applications LATA 2011 held in Tarragona Spain in May 2011 The 36 revised full papers presented together with four invited articles were carefully selected from 91 submissions Among the topics covered are algebraic language theory automata and logic systems analysis systems verifications computational complexity decidability unification graph transformations language based cryptography and applications in data mining computational learning and pattern recognition

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