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Instructions; 4.5 Single-Register Load-Store Instructions; 4.6 Multiple-Register Load-Store Instructions; 4.7 Stack Instructions
4.8 Software Interrupt Instruction4.9 Summary; Chapter 5. Efficient C Programming; 5.1 Overview of C Compilers and Optimization; 5.2 Basic C Data Types; 5.3 C Looping Structures; 5.4 Register Allocation; 5.5 Function Calls; 5.6 Pointer Aliasing; 5.7 Structure Arrangement; 5.8 Bit-fields; 5.9 Unaligned Data and Endianness; 5.10 Division; 5.11 Floating Point; 5.12 Inline Functions and Inline Assembly; 5.13 Portability Issues; 5.14 Summary; Chapter 6. Writing and Optimizing ARM Assembly Code; 6.1 Writing Assembly Code; 6.2 Profiling and Cycle Counting; 6.3 Instruction Scheduling
6.4 Register Allocation6.5 Conditional Execution; 6.6 Looping Constructs; 6.7 Bit Manipulation; 6.8 Efficient Switches; 6.9 Handling Unaligned Data; 6.10 Summary; Chapter 7. Optimized Primitives; 7.1 Double-Precision Integer Multiplication; 7.2 Integer Normalization and Count Leading Zeros; 7.3 Division; 7.4 Square Roots; 7.5 Transcendental Functions: log, exp, sin, cos; 7.6 Endian Reversal and Bit Operations; 7.7 Saturated and Rounded Arithmetic; 7.8 Random Number Generation; 7.9 Summary; Chapter 8. Digital Signal Processing; 8.1 Representing a Digital Signal
8.2 Introduction to DSP on the ARM8.3 FIR filters; 8.4 IIR Filters; 8.5 The Discrete Fourier Transform; 8.6 Summary; Chapter 9. Exception and Interrupt Handling; 9.1 Exception Handling; 9.2 Interrupts; 9.3 Interrupt Handling Schemes; 9.4 Summary; Chapter 10. Firmware; 10.1 Firmware and Bootloader; 10.2 Example: Sandstone; 10.3 Summary; Chapter 11. Embedded Operating Systems; 11.1 Fundamental Components; 11.2 Example: Simple Little Operating System; 11.3 Summary; Chapter 12. Caches; 12.1 The Memory Hierarchy and Cache Memory; 12.2 Cache Architecture; 12.3 Cache Policy
12.4 Coprocessor 15 and Caches

Sommario/riassunto

Over the last ten years, the ARM architecture has become one of the most pervasive architectures in the world, with more than 2 billion ARM-based processors embedded in products ranging from cell phones to automotive braking systems. A world-wide community of ARM developers in semiconductor and product design companies includes software developers, system designers and hardware engineers. To date no book has directly addressed their need to develop the system and software for an ARM-based system. This text fills that gap. This book provides a comprehensive description of the operation

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Analyse the Public Opinion on Politicians -- A Comparison of Classical versus Deep Learning Techniques for Abusive Content Detection on Social Media Sites -- March with and without Feet: The Talking about Protests and Beyond -- Fake news as we feel it: perception and conceptualization of the term "fake news" in the media -- Inferring Human Traits From Facebook Statuses -- Assessing Competition for Social Media Attention among Non-profits -- A generalized force-directed layout for multiplex sociograms -- The anatomy of a Web of Trust: the Bitcoin-OTC market -- Gender Wage Gap in the University Sector: A Case Study of All Universities in Ontario, Canada -- Analyzing Dynamic Ideological Communities in Congressional Voting Networks -- Quantifying Media Influence and Partisan Attention on Twitter during the UK EU Referendum -- Ballparking the Urban Placeness: A Case Study of Analyzing Starbucks Posts on Instagram -- A full-cycle methodology for news topic modeling and user feedback research -- Network-Oriented Modeling of Multi-Criteria Homophily and Opinion Dynamics in Social Media -- Restoring the succession of magistrates in ancient Greek policies: how to reduce it to travelling salesman problem using heuristic approach -- Keeping up on Current Events! A Case Study of Newcomers in Wikipedia -- Who Gets the Lion's Share in the Sharing Economy: A case study of social inequality in AirBnB -- Offline versus Online: A Paradigm for Meaningful Categorization of Ties for Retweets -- Network Analysis of Anti-Muslim Groups on Facebook -- The evolution of developer work rhythms: an analysis using signal processing techniques -- Forecasting purchase categories with transition graphs using financial and social data -- Building and Validating Hierarchical Lexicons with a Case Study on Personal Values -- Diversity of a User's Friend Circle in OSNs and Its Use for Profiling -- Vitriol on Social Media: Curation and Investigation. .

Sommario/riassunto

The two-volume set LNCS 11185 + 11186 constitutes the proceedings of the 10th International Conference on Social Informatics, SocInfo 2018, held in Saint-Petersburg, Russia, in September 2018. The 30 full and 32 short papers presented in these proceedings were carefully reviewed and selected from 110 submissions. They deal with the applications of methods of the social sciences in the study of socio-technical systems, and computer science methods to analyze complex social processes, as well as those that make use of social concepts in the design of information systems. .
