

Technology Ventures

This book addresses a gap in the present literature on the role that geography plays in the distribution of entrepreneurial activity. Emerging work on entrepreneurial ecosystems suggests it is important entrepreneurship studies move beyond the mere identification of factors that impact entrepreneurial activity to consider the unique geographic contexts in which entrepreneurs operate. These contexts include a variety of interactive elements including regional characteristics, institutions, actors, and connectors. As such, this collection analyses entrepreneurial activity in regions around the globe. The contributions explore a series of diverse regions in terms of their geographic, historical, industrial, and institutional contexts. The book also explores a range of topics, such as patterns of regional/subnational variations in entrepreneurial activity, geographically mediated determinants of entrepreneurship, inter-temporal dynamics, evolution of regional systems of entrepreneurship, and the impact of entrepreneurship on regional development and regional entrepreneurship policy. This book enhances our policy and practical knowledge about the unique regional context in which entrepreneurs operate and demonstrates the important role that geography plays in the spatial distribution of entrepreneurial activity.

Technology Ventures From Idea to Enterprise

Presents an overview of empirical and conceptual developments in the study of high-tech entrepreneurs from an interdisciplinary and multinational perspective. This book explores various conceptual frameworks and definitions of high-tech entrepreneurs and of the entrepreneurial process based on studies in different settings and contexts.

Fundraising for venture capital investments have continued to increase in recent years. One crucial step in the investment process is the valuation of the target company. Investors are faced with the great challenge of valuing a young venture without a corporate or financial history, a firm customer relationship or even a business model, while still taking into account the tremendous growth potential. Especially the valuation of technology companies is a difficult and often subjective process. Motivated by these considerations, this dissertation details a design science research project, which aims to develop an artifact that improves the indication of value in early-stage technology venture valuation while enabling operationalizable and fair valuation. This approach ensures a more meaningful valuation and better applicability to early-stage technology ventures compared to traditional methods while supporting the deliberate reduction of information asymmetries between entrepreneurs and investors. Firm-specific characteristics and practical applicability are taken into account.

These proceedings focus on various aspects of computer science and its applications, thus providing an opportunity for academic and industry professionals to discuss the latest issues and progress in this and related areas. The book includes theory and applications alike.

Organizations, governments, and corporations are all concerned with distributing their goods and services to those who need them most, consequently benefiting in the process. Only by carefully considering the interrelated nature of social systems can organizations achieve the success they strive for. Economics: Concepts, Methodologies, Tools, and Applications explores the interactions between market agents and their impact on global prosperity. Incorporating both theoretical background and advanced concepts in the discipline, this multi-volume reference is intended for policymakers, economists, business leaders, governmental and non-governmental organizations, and students of economic theory.

From three design partners at Google Ventures, a unique five-day process--called the sprint--for solving tough problems using design, prototyping, and testing ideas with customers.

Filling the gap between publications for industrial developers and academic researchers on graphene synthesis and its applications, this book presents the essential aspects for the successful upscaling of graphene production. After an introduction to graphene, its synthesis and characterization, the text covers a wide variety of graphene composites and compounds. The larger part of the book discusses various applications where graphene has been successfully integrated into technologies, including uses in the energy sector, oil and gas industry, biomedical areas, sensors and coatings. Finally, the book concludes with a summary and a look at the future of graphene technology, including a market review. With its focus on applications, this is equally useful for both academic and industrial users.

Jan Brinckmann analyzes how competencies of founders of new technology-based firms affect the development of their ventures. The research is grounded in competence-related literature and combines insights from entrepreneurship and management research.

Written by an experienced business lawyer in the technology, scientific and engineering community, this publication is for the engineer with an innovative high-tech idea or concept who needs those crucial business insights and strategies to move that idea forward. It offers key analysis on how to leave a current employer, gain access to technologies and potential talent, and considers other issues that can reduce problems down the road. It even includes a step-by-step guide for accessing and protecting intellectual property at the earliest stages. To assist in the fundraising process, this resource explores all the available options to capitalize a business – from self-funding, to bootstrapping, to angel investors, to venture capital to government grants, to bank loans, to joint ventures. It also looks at the best ways to form a company so as to take advantage of various tax and business strategies, discusses compensation of employees with stock options or restricted stock plans, explains how an emerging company can expand internationally, and covers some key exit strategies such as an IPO or a merger/acquisition. It covers most everything a new technology business will face including hiring, firing, contracts, leases, loans, and product warranties. As you read, you will find this book is full of the stuff that engineers love: statistics, data, tools, spreadsheets, and research. But it also full of the anecdotal evidence and practical advice needed to stay the course. Now is a tremendous time for entrepreneurship. Although there have been periodic slowdowns in the economy, if you believe in a future, high-tech is the future in which to believe. This book is part of the Taylor & Francis/CRC Press series "What Every Engineer Should Know About...". Like the other books in the series, it is designed to provide you with important knowledge that will help you along your career path. This one will also help you make that path your own.

This book defines socio-technological innovation and lays out different aspects of technology innovation and adoption literature as applied to socio-tech innovation and entrepreneurship. Socio-tech innovation refers to novel solutions that involve development or adoption of technological innovations to address social and/or environmental problems with a view towards creating benefit for the larger whole rather than just for the owners or investors. Unlike conventional technological innovation, socio-tech innovation either develops a product specifically for underserved markets and adopts a model in which the market is not an afterthought but the *raison d'être*. Social ventures have not been as successful in scaling up, though technology innovation-led ventures have; therefore, meaningful actionable insights that can help social ventures scale up successfully can be gleaned by this process. This book offers researchers in innovation and entrepreneurship programs a unique and interdisciplinary approach to studying social innovation that is grounded in technology innovation. This book features a series of socio-tech venture cases that illustrate these dynamics and can be used in undergraduate and graduate courses.

The study extends the literature on venture capital by examining whether entrepreneur's choice for an external investor and certain firm characteristics have an impact on venture success or not. The focus is set on the differences in value creation by venture capitalists and business angels for ventures of the high- and low-technology sector. The assessment of a data set including 252 Series A financing rounds by venture capitalist firms, business angels and collaborative investments of both investors conducted between 2005 and 2012 unveils value enhancing aspects for all three financing solutions. Overall, start-

ups initially financed by venture capitalist firms perform best with regard to general venture success, whereas start-ups collaboratively supported by venture capitalists and business angels have the highest chances to exit successfully through a trade sale. It becomes further apparent that ventures located in one of the high-technology industries 'internet', 'pharmaceuticals' and 'high-tech', ventures that are longer established in the market and ventures whose Series A financing round was executed more recently indicate an enhanced likelihood of success.

"Financial Systems, Corporate Investment in Innovation, and Venture Capital is a text for scholars and students of the theory and practice of financing innovation. It will also be a source for governments, NGOs, financial institutions and multilateral agencies interested in the practicalities of promoting technology-based small and medium enterprises."--BOOK JACKET.

European private equity investment reached €47 billion in 2005, up 27% from 2004. Funds raised for private equity were €72 billion, up 250% on the previous year, both figures being all time highs. Raising Venture Capital Finance in Europe provides business owners, entrepreneurs and investors alike with a step-by-step approach to exploiting this market and funding new projects effectively. Written by Keith Arundale, an advisor and commentator on the European and US VC and private equity industry for over 20 years, the guide blends business experience with practical approaches to enable the reader to maximize the opportunities available. The book includes a series of real-life case studies from venture capitalists and entrepreneurs from around Europe, each with practical tips for successful venture capital finance raising. With forewords from Sir Paul Judge (Chairman, Enterprise Education Trust) and Patrick Sheehan (Chairman, Venture Capital Committee, European Private Equity and Venture Capital Association) the book begins with a brief introduction to the field, including an analysis of current trends and issues in the industry, and goes on to provide a detailed framework for an objective assessment of each business opportunity. The book looks at sources of finance and private equity, shows how to write a successful business plan, details the entire investment process, and considers the tax and legal issues involved. A particular feature of the book is that it looks at the topic from both sides - showing what the venture capitalist is looking for as well as detailing how an entrepreneur or business owner can make proposals attractive to those investors. This means that the reader will be able to minimize time wasted on unnecessary activities and therefore develop investment approaches which are succinct, relevant, and give every chance of success.

Alexander Brem presents a comprehensive overview of the theoretical background and recent models in the context of innovation and entrepreneurship. Based on a process-oriented innovation-entrepreneurship framework, the author investigates the integration of market pull and technology push activities in the innovation process.

For business, engineering, science, and professional students who demand a comprehensive guide to high-growth entrepreneurship, Technology Ventures is the leading resource for analyzing opportunities and building new enterprises. Drawing on the latest academic research and practitioner insights, Technology Ventures integrates clear theoretical frameworks with action-oriented examples and exercises. Its broad perspective on "technology," including clean tech, information technology, and the life sciences - ensures wide-ranging appeal to anyone with an interest in high-potential ventures. Entrepreneurship is playing a vital role in finding solutions to the huge challenges facing civilization, including health, communications, security, infrastructure, education, energy and the environment. Coverage on customer engagement, the customer development process, and the latest insights on business model design, have been expanded. Special attention has been paid to university technology commercialization, open source innovation, and opportunities in mobile, digital health, 3D printing, and energy tech. The organization of key topics such as: intellectual property, the new venture organizations, and marketing and sales, has been enhanced. Also available with this edition are additional web-based resources, including syllabi and presentations, additional cases and business plans, and hundreds of videos of entrepreneurs and leaders.

This book is written primarily for people who are creating the future high-tech world by designing, building, and marketing innovative products. More specifically, it is for all engineers, engineering managers, entrepreneurs and intapreneurs. The book provides insight into the problems entrepreneurs face and gives a model for successful startup companies in a formal checklist.

Integrating theory and practice, this book provides students with the knowledge, skills and practical approaches needed to deal with the challenges involved in managing, commercialising and marketing technological innovation and new business development.

This collection of expert articles explores the development drivers of new technology-based firms and projects. It provides perspectives for an in-depth understanding of how technological inventions lead to the creation of new and sustainable companies or business units. The authors address methods and concepts that help technology-based start-ups and entrepreneurial projects successfully develop innovative products and services.

Information and communication technologies related to digital networks enable the continued rise of entrepreneurial business opportunities and inventive business models. E-Entrepreneurship and ICT Ventures: Strategy, Organization and Technology provides a unique and quintessential overview of the current state of conceptual and empirical research at the interface of e-business and entrepreneurship research. Contributing an enhanced understanding of the important interface of e-business and entrepreneurship, this reference publication brings together leading academics and practitioners from around the world, offering essential reading material for students, educators, managers, entrepreneurs, and political decision makers interested in applying and fostering e-business concepts in an entrepreneurial environment.

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference

source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Technology Ventures is the first textbook to thoroughly examine a global phenomenon known as technology entrepreneurship. Now in its second edition, this book integrates the most valuable entrepreneurship and technology management theories from some of the world's leading scholars and educators with current examples of new technologies and an extensive suite of media resources. Dorf and Byers comprehensive collection of action-oriented concepts and applications provides both students and professionals with the tools necessary for success in starting and growing a technology enterprise. Technology Ventures details the critical differences between scientific ideas and true business opportunities.

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 41. Chapters: Accel Partners, Advanced Technology Ventures, American Research and Development Corporation, Andreessen Horowitz, Atlas Venture, Austin Ventures, Bain Capital Ventures, Battery Ventures, Benchmark Capital, Bessemer Venture Partners, Black Coral Capital, Canaan Partners, Charles River Ventures, Clearstone Venture Partners, DAG Ventures, Draper Fisher Jurvetson, Elevation Partners, Fidelity Ventures, First Round Capital, Flybridge Capital Partners, Foundation Capital, Galen Partners, General Catalyst Partners, Google Ventures, Granite Ventures, Greylock Partners, Highland Capital Partners, In-Q-Tel, Insight Venture Partners, Intellectual Ventures, JMI Equity, Khosla Ventures, Kleiner Perkins Caufield & Byers, Lightspeed Venture Partners, Lux Capital, Matrix Partners, Mayfield Fund, Menlo Ventures, Meritech Capital Partners, ModusLink Global Solutions, Mohr Davidow Ventures, Morgenthaler, New Enterprise Associates, Nexit Ventures, Norwest Venture Partners, Oak Investment Partners, Point Judith Capital, Quicksilver Ventures, Redpoint Ventures, Revolution LLC, Rho Ventures, RRE Ventures, Sante Ventures, Sequoia Capital, Seraph Group, Sevin Rosen Funds, Sofinnova, Tenaya Capital, The Founders Fund, U.S. Venture Partners, Y Combinator (company). Excerpt: Sequoia Capital is an American venture capital firm located in Menlo Park, California, United States Sequoia's diverse portfolio includes companies in energy, financial, health care, mobile and technology sectors. The firm is known for the success of companies it has funded, some of which include Airbnb, Apple, Aruba Networks, Google, YouTube, PayPal, Instagram, Cisco Systems, Oracle, Electronic Arts, Yahoo!, NVIDIA, Navigenics, Cotendo, Atari, Ameritox, Kayak, Meebo, Admob, Zappos, Green Dot and LinkedIn. With its broad range of highly successful investments, Sequoia...

In the ever changing scientific word, Academic entrepreneurship has emerged as a new and growing field. Referring to the creation and management of an environment for active support of knowledge exploitation and transfer, Academic entrepreneurship aims to encourage entrepreneurial behavior in the academic community. Academic Entrepreneurship and Technological Innovation: A Business Management Perspective provides a wide-ranging overview of the relationship between universities and organizations through the most recent and detailed research on university entrepreneurship. This book aims to be a reference source for students, researchers, and practitioners interested in the academic industry's demand for technological innovation.

Dorf's name appears first on the earlier editions.

This book is a 'crossover' treatment of quantitative and qualitative risk analysis within the setting of new high technology ventures in the UK. Reid and Smith have based their research on extensive fieldwork in patent-intensive, high-technology firms. This has included face-to-face interviews with leading investors, and is illustrated by two chapters of case studies. Their aim is to advance the understanding of methods of risk assessment and to illuminate current policy concerns about stimulating innovative output and securing intellectual property. This book is unique in being academic in intent and purpose, yet strongly grounded in practice, without becoming merely a practitioner volume. Reid and Smith find a considerable consensus in the venture capital industry on the spectrum of investments by risk, and on key commercial factors affecting risk. This book offers a useful and interdisciplinary approach to an increasingly popular field of study.

This pioneering work explores both the theory and practice of business and technology incubation over the past six decades as an approach to new venture creation and development. With a global scope, the Handbook examines key concepts, models, and mechanisms, providing a research-based analytical foundation from which to understand the emerging role of modern incubation tools in building entrepreneurship ecosystems for promoting targeted economic development.

Recognizing the unique needs of the technology startup, Duening focuses on intellectual property development, funding, and marketing/selling more than other texts in this market. Extensive use of technology examples, case studies, and assignments keeps the book relevant and motivating for engineering students. Rich in case studies, examples, and in-chapter elements that focus on the challenges of launching and operating a technology venture In-depth examination of intellectual property development, valuation, deal structuring, and equity preservation, issues of most relevance to technology start-ups Extensive discussion of technology management and continuous innovation as a competitive advantage Addresses the issue of leading, managing, motivating, and compensating technical workers More time on the fundamentals of marketing and selling, as these are elements of entrepreneurship commonly most neglected by engineers and scientists

This book includes over 30 real-life, up-to-date, award-winning case studies in scientific fields such as biotechnology, biomedicine, high-tech engineering and information technology. The case studies are arranged in modules that track the typical life cycle of creating and growing a new venture, which presents a comprehensive picture of entrepreneurial activities. The text is written in a language and style that managers will appreciate.

Carbon dioxide utilisation is a growing field of research that spans early stage laboratory chemistry through to commercial exploitation. In 2013 the CO2Chem Network (www.co2chem.com) made a successful bid to hold the 14th edition of this major conference. This was the first time it was held in the United Kingdom and attracted over 270 delegates from 32 different countries. It was a condition of presentation that all the work submitted was new and novel. We invited submissions of new work for this Research Topic and manuscripts were subjected to deep peer review. We are pleased that these papers are now being collated into an eBook. We value the range and quality of the papers submitted. These range from novel capture, integration and process through to policy, public perception and economic evaluation. CO2Chem was proud to be chosen to organise this prestigious conference. CO2Chem was founded in 2010 as one of the Engineering and Physical Sciences (EPSRC) Grand Challenge Networks. It is now in its eighth year of operation and its third round of direct funding. It continues to be a forum for discussion and collaboration nationally and globally. We have for a long time associated ourselves with ICCDU and will continue to do so in the future. We hope that the papers presented here serve as a catalyst to further research in CDU and to engagement with ICCDU.

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If you are not already in a management position, chances are you soon will be. According to the Bureau of Statistics, the fastest growing areas of employment for engineers are in engineering/science management. With over 200 contributing authors, The Technology Management Handbook informs and assists the more than 1.5 million engineering managers in the practice of technical management. Written from the technical manager's perspective and written for technologists who are managers, The Technology Management Handbook presents in-depth information on the science and practice of management. Its comprehensive coverage encompasses the field of technology management, offering information on: Entrepreneurship Innovations Economics Marketing Product Development Manufacturing Finance Accounting Project Management Human Resources International Business

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