

Netcentric System of Systems Engineering with DEVS Unified Process



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Netcentric System Of Systems Engineering With Devs Unified Process

Andreas Tolk, Lakhmi C Jain



Netcentric System Of Systems Engineering With Devs Unified Process:

Netcentric System of Systems Engineering with DEVS Unified Process Saurabh Mittal, José L. Risco Martín, 2018-09-03 In areas such as military security aerospace and disaster management the need for performance optimization and interoperability among heterogeneous systems is increasingly important Model driven engineering a paradigm in which the model becomes the actual software offers a promising approach toward systems of systems SoS engineering However model driven engineering has largely been unachieved in complex dynamical systems and netcentric SoS partly because modeling and simulation M S frameworks are stove piped and not designed for SoS composability Addressing this gap Netcentric System of Systems Engineering with DEVS Unified Process presents a methodology for realizing the model driven engineering vision and netcentric SoS using DEVS Unified Process DUNIP The authors draw on their experience with Discrete Event Systems Specification DEVS formalism System Entity Structure SES theory and applying model driven engineering in the context of a netcentric SoS They describe formal model driven engineering methods for netcentric M S using standards based approaches to develop and test complex dynamic models with DUNIP The book is organized into five sections Section I introduces undergraduate students and novices to the world of DEVS It covers systems and SoS M S as well as DEVS formalism software modeling language and DUNIP It also assesses DUNIP with the requirements of the Department of Defense s DoD Open Unified Technical Framework OpenUTF for netcentric Test and Evaluation T E Section II delves into M S based systems engineering for graduate students advanced practitioners and industry professionals It provides methodologies to apply M S principles to SoS design and reviews the development of executable architectures based on a framework such as the Department of Defense Architecture Framework DoDAF It also describes an approach for building netcentric knowledge based contingency driven systems Section III guides graduate students advanced DEVS users and industry professionals who are interested in building DEVS virtual machines and netcentric SoS It discusses modeling standardization the deployment of models and simulators in a netcentric environment event driven architectures and more Section IV explores real world case studies that realize many of the concepts defined in the previous chapters Section V outlines the next steps and looks at how the modeling of netcentric complex adaptive systems can be attempted using DEVS concepts It touches on the boundaries of DEVS formalism and the future work needed to utilize advanced concepts like weak and strong emergence self organization scale free systems run time modularity and event interoperability This groundbreaking work details how DUNIP offers a well structured platform independent methodology for the modeling and simulation of netcentric system of systems

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Saurabh Mittal, José L. Risco Martín, 2018-09-03 In areas such as military security aerospace and disaster management the need for performance optimization and interoperability among heterogeneous systems is increasingly important Model driven engineering a paradigm in which the model becomes the actual software offers a promising approach toward systems of

systems SoS engineering However model driven engineering has largely been unachieved in complex dynamical systems and netcentric SoS partly because modeling and simulation M S frameworks are stove piped and not designed for SoS composability Addressing this gap Netcentric System of Systems Engineering with DEVS Unified Process presents a methodology for realizing the model driven engineering vision and netcentric SoS using DEVS Unified Process DUNIP The authors draw on their experience with Discrete Event Systems Specification DEVS formalism System Entity Structure SES theory and applying model driven engineering in the context of a netcentric SoS They describe formal model driven engineering methods for netcentric M S using standards based approaches to develop and test complex dynamic models with DUNIP The book is organized into five sections Section I introduces undergraduate students and novices to the world of DEVS It covers systems and SoS M S as well as DEVS formalism software modeling language and DUNIP It also assesses DUNIP with the requirements of the Department of Defense s DoD Open Unified Technical Framework OpenUTF for netcentric Test and Evaluation T E Section II delves into M S based systems engineering for graduate students advanced practitioners and industry professionals It provides methodologies to apply M S principles to SoS design and reviews the development of executable architectures based on a framework such as the Department of Defense Architecture Framework DoDAF It also describes an approach for building netcentric knowledge based contingency driven systems Section III guides graduate students advanced DEVS users and industry professionals who are interested in building DEVS virtual machines and netcentric SoS It discusses modeling standardization the deployment of models and simulators in a netcentric environment event driven architectures and more Section IV explores real world case studies that realize many of the concepts defined in the previous chapters Section V outlines the next steps and looks at how the modeling of netcentric complex adaptive systems can be attempted using DEVS concepts It touches on the boundaries of DEVS formalism and the future work needed to utilize advanced concepts like weak and strong emergence self organization scale free systems run time modularity and event interoperability This groundbreaking work details how DUNIP offers a well structured platform independent methodology for the modeling and simulation of netcentric system of systems

Modeling and Simulation Support for System of Systems Engineering Applications Larry B. Rainey, Andreas Tolk, 2015-01-05 a much needed handbook with contributions from well chosen practitioners A primary accomplishment is to provide guidance for those involved in modeling and simulation in support of Systems of Systems development more particularly guidance that draws on well conceived academic research to define concepts and terms that identifies primary challenges for developers and that suggests fruitful approaches grounded in theory and successful examples Paul Davis The RAND Corporation Modeling and Simulation Support for System of Systems Engineering Applications provides a comprehensive overview of the underlying theory methods and solutions in modeling and simulation support for system of systems engineering Highlighting plentiful multidisciplinary applications of modeling and simulation the book uniquely addresses the criteria and challenges found

within the field Beginning with a foundation of concepts terms and categories a theoretical and generalized approach to system of systems engineering is introduced and real world applications via case studies and examples are presented A unified approach is maintained in an effort to understand the complexity of a single system as well as the context among other proximate systems In addition the book features Cutting edge coverage of modeling and simulation within the field of system of systems including transportation system health management space mission analysis systems engineering methodology and energy State of the art advances within multiple domains to instantiate theoretic insights applicable methods and lessons learned from real world applications of modeling and simulation The challenges of system of systems engineering using a systematic and holistic approach Key concepts terms and activities to provide a comprehensive unified and concise representation of the field A collection of chapters written by over 40 recognized international experts from academia government and industry A research agenda derived from the contribution of experts that guides scholars and researchers towards open questions Modeling and Simulation Support for System of Systems Engineering Applications is an ideal reference and resource for academics and practitioners in operations research engineering statistics mathematics modeling and simulation and computer science The book is also an excellent course book for graduate and PhD level courses in modeling and simulation engineering and computer science

Model Engineering for Simulation Lin Zhang, Bernard P. Zeigler, Yuanjun Lai, 2019-02-27 Model Engineering for Simulation provides a systematic introduction to the implementation of generic normalized and quantifiable modeling and simulation using DEVS formalism It describes key technologies relating to model lifecycle management including model description languages complexity analysis model management service oriented model composition quantitative measurement of model credibility and model validation and verification The book clearly demonstrates how to construct computationally efficient object oriented simulations of DEVS models on parallel and distributed environments Guides systems and control engineers in the practical creation and delivery of simulation models using DEVS formalism Provides practical methods to improve credibility of models and manage the model lifecycle Helps readers gain an overall understanding of model lifecycle management and analysis Supported by an online ancillary package that includes an instructors and student solutions manual

Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering Alex Gorod, Brian E. White, Vernon Ireland, S. Jimmy Gandhi, Brian Sauser, 2014-07-01 Suitable as a reference for industry practitioners and as a textbook for classroom use Case Studies in System of Systems Enterprise Systems and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering SoSE enterprise systems engineering ESE and complex systems engineering C

Simulation for Cyber-Physical Systems Engineering José L. Risco Martín, Saurabh Mittal, Tuncer Ören, 2020-11-07 This comprehensive book examines a range of examples prepared by a diverse group of academic and industry practitioners which demonstrate how cloud based simulation is being extensively used across many disciplines

including cyber physical systems engineering This book is a compendium of the state of the art in cloud based simulation that instructors can use to inform the next generation It highlights the underlying infrastructure modeling paradigms and simulation methodologies that can be brought to bear to develop the next generation of systems for a highly connected society Such systems aptly termed cyber physical systems CPS are now widely used in e g transportation systems smart grids connected vehicles industrial production systems healthcare education and defense Modeling and simulation M S along with big data technologies are at the forefront of complex systems engineering research The disciplines of cloud based simulation and CPS engineering are evolving at a rapid pace but are not optimally supporting each other s advancement This book brings together these two communities which already serve multi disciplinary applications It provides an overview of the simulation technologies landscape and of infrastructure pertaining to the use of cloud based environments for CPS engineering It covers the engineering design and application of cloud simulation technologies and infrastructures applicable for CPS engineering The contributions share valuable lessons learned from developing real time embedded and robotic systems deployed through cloud based infrastructures for application in CPS engineering and IoT enabled society The coverage incorporates cloud based M S as a medium for facilitating CPS engineering and governance and elaborates on available cloud based M S technologies and their impacts on specific aspects of CPS engineering

The Profession of Modeling and Simulation Andreas Tolk, Tuncer Ören, 2017-07-03 The definite guide to the theory knowledge technical expertise and ethical considerations that define the M the technical discipline of M the ethical standards that should guide professional conduct and the economic and commercial challenges today s M S professionals face Demonstrates applications of M S tools and techniques in a variety of fields such as engineering operations research and cyber environments with over 500 types of simulations Highlights professional and academic aspects of the field including preferred programming languages professional academic and certification programs and key international societies Shows why M S professionals must be fully versed in the theory concepts and tools needed to address the challenges of cyber environments The Profession of Modeling and Simulation is a valuable resource for M S practitioners developers and researchers working in industry and government Simulation professionals including administrators managers technologists faculty members and scholars within the physical sciences life sciences and engineering fields will find it highly useful as will students planning to pursue a career in the M S profession nearly three dozen experts in Modeling and Simulation M S come together to make a compelling case for the recognition of M S as a profession Important reading for anyone seeking to elevate the standing of this vital field Alfred Al Grasso President CEO The MITRE Corporation Andreas Tolk PhD is Technology Integrator for the Modeling Simulation Experimentation and Analytics Division of The MITRE Corporation an adjunct professor in the Department of Engineering Management and Systems Engineering and the Department for Modeling Simulation and Visualization Engineering at Old Dominion University and an SCS fellow Tuncer Ören PhD is Professor Emeritus of Computer Science at the

University of Ottawa He is an SCS fellow and an inductee to SCS Modeling and Simulation Hall of Fame His research interests include advancing methodologies ethics body of knowledge and terminology of modeling and simulation

Guide to Simulation-Based Disciplines Saurabh Mittal,Umut Durak,Tuncer Ören,2017-07-26 This invaluable text reference reviews the state of the art in simulation based approaches across a wide range of different disciplines and provides evidence of using simulation based approaches to advance these disciplines Highlighting the benefits that simulation can bring to any field the volume presents case studies by the leading experts from such diverse domains as the life sciences engineering architecture arts and social sciences Topics and features includes review questions at the end of every chapter provides a broad overview of the evolution of the concept of simulation stressing its importance across numerous sectors and disciplines addresses the role of simulation in engineering design and emphasizes the benefits of integrating simulation into the systems engineering paradigm explains the relation of simulation with Cyber Physical Systems and the Internet of Things and describes a simulation infrastructure for complex adaptive systems investigates how simulation is used in the Software Design Life Cycle to assess complex solutions and examines the use of simulation in architectural design reviews the function and purpose of simulation within the context of the scientific method and its contribution to healthcare and health education training discusses the position of simulation in research in the social sciences and describes the simulation of service systems for simulation based enterprise management describes the role of simulation in learning and education as well as in in military training With its near exhaustive coverage of disciplines this comprehensive collection is essential reading for all researchers practitioners and students seeking insights into the use of various modeling paradigms and the need for robust simulation infrastructure to advance their field into a computational future

Ontology, Epistemology, and Teleology for Modeling and Simulation Andreas Tolk,2012-08-10 In this book internationally recognized experts in philosophy of science computer science and modeling and simulation are contributing to the discussion on how ontology epistemology and teleology will contribute to enable the next generation of intelligent modeling and simulation applications It is well understood that a simulation can provide the technical means to display the behavior of a system over time including following observed trends to predict future possible states but how reliable and trustworthy are such predictions The questions about what we can know ontology how we gain new knowledge epistemology and what we do with this knowledge teleology are therefore illuminated from these very different perspectives as each experts uses a different facet to look at these challenges The result of bringing these perspectives into one book is a challenging compendium that gives room for a spectrum of challenges from general philosophy questions such as can we use modeling and simulation and other computational means at all to discover new knowledge down to computational methods to improve semantic interoperability between systems or methods addressing how to apply the recent insights of service oriented approaches to support distributed artificial intelligence As such this book has been compiled as an entry point to new domains for students scholars

and practitioners and to raise the curiosity in them to learn more to fully address the topics of ontology epistemology and teleology from philosophical computational and conceptual viewpoints

Emergent Behavior in System of Systems Engineering Larry B. Rainey,O.Thomas Holland,2022-08-05 This book compiles real world case studies on discovering understanding and engineering emergent behaviors in a computational environment across multiple application domains such as wargaming biology IoT disaster management and space architecting All the application domains are described through an undercurrent of System of Systems SoS engineering in conjunction with theoretical foundations required for engineering a Modeling and Simulation SoS capable of displaying valid emergent behavior An excellent read and state of the art in M the implications for the existence of emergent behavior the manifestation of emergent behavior and methods to either control emergent behavior assuming its effects are negative in nature or capitalize on emergent behavior given its effects are positive in nature

Emergent Behavior in Complex Systems Engineering Saurabh Mittal,Saikou Diallo,Andreas Tolk,2018-04-17 A comprehensive text that reviews the methods and technologies that explore emergent behavior in complex systems engineering in multidisciplinary fields In *Emergent Behavior in Complex Systems Engineering* the authors present the theoretical considerations and the tools required to enable the study of emergent behaviors in manmade systems Information Technology is key to today s modern world Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure Modeling and simulation along with Big Data technologies are at the forefront of such exploration and investigation The text offers a number of simulation based methods technologies and approaches that are designed to encourage the reader to incorporate simulation technologies to further their understanding of emergent behavior in complex systems The authors present a resource for those designing developing managing operating and maintaining systems including system of systems The guide is designed to help better detect analyse understand and manage the emergent behaviour inherent in complex systems engineering in order to reap the benefits of innovations and avoid the dangers of unforeseen consequences This vital resource Presents coverage of a wide range of simulation technologies Explores the subject of emergence through the lens of Modeling and Simulation M S Offers contributions from authors at the forefront of various related disciplines such as philosophy science engineering sociology and economics Contains information on the next generation of complex systems engineering Written for researchers lecturers and students *Emergent Behavior in Complex Systems Engineering* provides an overview of the current discussions on complexity and emergence and shows how systems engineering methods in general and simulation methods in particular can help in gaining new insights in complex systems engineering

Intelligent-Based Systems Engineering Andreas Tolk,Lakhmi C Jain,2011-03-11 The International Council on Systems Engineering INCOSE defines Systems Engineering as an interdisciplinary approach and means to enable the realization of successful systems Researchers are using intelligence based techniques to support the practices of systems engineering in an innovative way This research volume includes a

selection of contributions by subject experts to design better systems *Engineering Emergence* Larry B. Rainey, Mo Jamshidi, 2018-09-03 This book examines the nature of emergence in context of man made i e engineered systems in general and system of systems engineering applications specifically It investigates emergence to interrogate or explore the domain space from a modeling and simulation perspective to facilitate understanding detection classification prediction control and visualization of the phenomenon Written by leading international experts the text is the first to address emergence from an engineering perspective System engineering has a long and proud tradition of establishing the integrative view of systems The field however has not always embraced and assimilated well the lessons and implications from research on complex adaptive systems As the editors note there have been no texts on Engineering Emergence Principles and Applications It is therefore especially useful to have this new edited book that pulls together so many of the key elements ranging from the theoretical to the practical and tapping into advances in methods tools and ways to study system complexity Drs Rainey and Jamshidi are to be congratulated both for their vision of the book and their success in recruiting contributors with so much to say Most notable however is that this is a book with engineering at its core It uses modeling and simulation as the language in which to express principles and insights in ways that include tight thinking and rigor despite dealing with notably untidy and often surprising phenomena Paul K Davis RAND and Frederick S Pardee RAND Graduate School The first chapter is an introduction and overview to the text The book provides 12 chapters that have a theoretical foundation for this subject Includes 7 specific example chapters of how various modeling and simulation paradigms techniques can be used to investigate emergence in an engineering context to facilitate understanding detection classification prediction control and visualization of emergent behavior The final chapter offers lessons learned and the proposed way ahead for this discipline

Modeling and Simulation-Based Systems Engineering Handbook Daniele Gianni, Andrea D'Ambrogio, Andreas Tolk, 2018-10-09 The capability modeling and simulation M S supplies for managing systems complexity and investigating systems behaviors has made it a central activity in the development of new and existing systems However a handbook that provides established M S practices has not been available Until now Modeling and Simulation Based Systems Engineering Handbook details the M S practices for supporting systems engineering in diverse domains It discusses how you can identify systems engineering needs and adapt these practices to suit specific application domains thus avoiding redefining practices from scratch Although M S practices are used and embedded within individual disciplines they are often developed in isolation However they address recurring problems common to all disciplines The editors of this book tackled the challenge by recruiting key representatives from several communities harmonizing the different perspectives derived from individual backgrounds and lining them up with the book s vision The result is a collection of M S systems engineering examples that offer an initial means for cross domain capitalization of the knowledge methodologies and technologies developed in several communities These examples provide the pros and cons of the methods and techniques available lessons learned and pitfalls

to avoid As our society moves further in the information era knowledge and M S capabilities become key enablers for the engineering of complex systems and systems of systems Therefore knowledge and M S methodologies and technologies become valuable output in an engineering activity and their cross domain capitalization is key to further advance the future practices in systems engineering This book collates information across disciplines to provide you with the tools to more efficiently design and manage complex systems that achieve their goals

Theory of Modeling and Simulation Bernard P. Zeigler, Alexandre Muzy, Ernesto Kofman, 2018-08-14 Theory of Modeling and Simulation Discrete Event Iterative System Computational Foundations Third Edition continues the legacy of this authoritative and complete theoretical work It is ideal for graduate and PhD students and working engineers interested in posing and solving problems using the tools of logico mathematical modeling and computer simulation Continuing its emphasis on the integration of discrete event and continuous modeling approaches the work focuses light on DEVS and its potential to support the co existence and interoperation of multiple formalisms in model components New sections in this updated edition include discussions on important new extensions to theory including chapter length coverage of iterative system specification and DEVS and their fundamental importance closure under coupling for iteratively specified systems existence uniqueness non deterministic conditions and temporal progressiveness legitimacy Presents a 40% revised and expanded new edition of this classic book with many important post 2000 extensions to core theory Provides a streamlined introduction to Discrete Event System Specification DEVS formalism for modeling and simulation Packages all the need to know information on DEVS formalism in one place Expanded to include an online ancillary package including numerous examples of theory and implementation in DEVS based software student solutions and instructors manual

Guide to Modeling and Simulation of Systems of Systems Bernard P. Zeigler, Hessam S. Sarjoughian, 2017-09-21 This easy to follow textbook provides an exercise driven guide to the use of the Discrete Event Systems Specification DEVS simulation modeling formalism and the System Entity Structure SES simulation model ontology supported with the latest advances in software architecture and design principles methods and tools for building and testing virtual Systems of Systems SoS The book examines a wide variety of SoS problems ranging from cloud computing systems to biological systems in agricultural food crops This enhanced and expanded second edition also features a new chapter on DEVS support for Markov modeling and simulation Topics and features provides an extensive set of exercises throughout the text to reinforce the concepts and encourage use of the tools supported by introduction and summary sections discusses how the SoS concept and supporting virtual build and test environments can overcome the limitations of current approaches offers a step by step introduction to the DEVS concepts and modeling environment features required to build sophisticated SoS models describes the capabilities and use of the tools CoSMoS DEVS Suite Virtual Laboratory Environment and MS4 MeTM reviews a range of diverse applications from the development of new satellite design and launch technologies to surveillance and control in animal epidemiology examines software hardware co design for

SoS and activity concepts that bridge information level requirements and energy consumption in the implementation demonstrates how the DEVS formalism supports Markov modeling within an advanced modeling and simulation environment
NEW This accessible and hands on textbook reference provides invaluable practical guidance for graduate students interested in simulation software development and cyber systems engineering design as well as for practitioners in these and related areas

System of Systems Modeling and Analysis Daniel A. DeLaurentis, Kushal Moolchandani, Cesare Guariniello, 2022-12-05 System of Systems Modeling and Analysis provides the reader with motivation theory methodology and examples of modeling and analysis for system of system SoS problems In addition to theory this book contains history and conceptual definitions as well as the theoretical fundamentals of SoS modeling and analysis It then describes methods for SoS modeling and analysis including use of existing methodology and original work specifically oriented to SoS Providing a bridge between theory and practice for modeling and analysis of SoS this book includes generalized concepts and Methods Tools and Processes MTP applicable to SoS across any application domain Examples of application from various fields will be used to provide a practical demonstration of the use of the methodologies Features Offers a modern presentation of SoS principles and guided description of applying a modeling and analysis process to SoS engineering Provides additional modeling approaches useful for SoS engineering including agent based modeling Covers the current gap in literature between theory and modeling application Features examples of applications from various fields such as energy grids and regional transportation Includes questions examples and exercises at the end of each chapter This book is intended for senior undergraduate students in engineering programs studying SoS modeling SoS analysis and SoS engineering courses Professional engineers will also benefit from MTP and examples as a baseline for specific user applications

Concepts and Methodologies for Modeling and Simulation Levent Yilmaz, 2015-04-08 This comprehensive text presents cutting edge advances in the theory and methodology of modeling and simulation M presents a focus on advanced modeling methodologies reviews the reliability and quality assurance of models discusses the specification and simulation of human and social behavior including models of personality emotions conflict management perception and anticipation provides a survey of the body of knowledge in M highlights the foundations established by the pioneering work of Prof Tuncer ren

Complexity Challenges in Cyber Physical Systems Saurabh Mittal, Andreas Tolk, 2020-01-09 Offers a one stop reference on the application of advanced modeling and simulation M S in cyber physical systems CPS engineering This book provides the state of the art in methods and technologies that aim to elaborate on the modeling and simulation support to cyber physical systems CPS engineering across many sectors such as healthcare smart grid or smart home It presents a compilation of simulation based methods technologies and approaches that encourage the reader to incorporate simulation technologies in their CPS engineering endeavors supporting management of complexity challenges in such endeavors
Complexity Challenges in Cyber Physical Systems Using Modeling and Simulation M S to Support Intelligence Adaptation

and Autonomy is laid out in four sections The first section provides an overview of complexities associated with the application of M S to CPS Engineering It discusses M S in the context of autonomous systems involvement within the North Atlantic Treaty Organization NATO The second section provides a more detailed description of the challenges in applying modeling to the operation risk and design of holistic CPS The third section delves in details of simulation support to CPS engineering followed by the engineering practices to incorporate the cyber element to build resilient CPS sociotechnical systems Finally the fourth section presents a research agenda for handling complexity in application of M S for CPS engineering In addition this text Introduces a unifying framework for hierarchical co simulations of cyber physical systems CPS Provides understanding of the cycle of macro level behavior dynamically arising from spatiotemporal interactions between parts at the micro level Describes a simulation platform for characterizing resilience of CPS Complexity Challenges in Cyber Physical Systems has been written for researchers practitioners lecturers and graduate students in computer engineering who want to learn all about M S support to addressing complexity in CPS and its applications in today s and tomorrow s world

Summer of Simulation John Sokolowski,Umut Durak,Navonil Mustafee,Andreas Tolk,2019-05-07 This book is based on the Summer Simulation Multi Conference SCSC which has been a prominent platform for the dissemination of scholarly research in the M S community for the last 50 years In keeping with the conference s seasonal title the authors have called this half century the summer of simulation and it has led not only to simulation based disciplines but also simulation as a discipline This book discusses contributions from the SCSC in four sections The first section is an introduction to the work The second section is devoted to contributions from simulation research fellows who were associated with the SCSC while the third section features the SCSC s most influential contributions Lastly the fourth section includes contributions from the best papers in the last five years Features A comprehensive volume dedicated to one of the simulation domain s major conferences the SCSC Offers a scientometric analysis of the SCSC Revisits high impact topics from 50 years of the SCSC Includes chapters by simulation research fellows associated with the SCSC Presents updated best paper contributions from the recent conference This work will be of value to anyone interested in the evolution of modeling and simulation over the last fifty years Readers will gain a perspective on what drove this evolution and develop an understanding of the key contributions that allowed this technology to grow into its own academic discipline and profession

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