DIGITAL TRANSFORMATION AS A SERVICE (DXAAS)

Principles, Paradigms and Practices

Submission Link	https://easychair.org/conferences/?conf=dxaasprinciplesparad0
Webpage	https://ktern.com/events/call-for-editors/dxaas-principles-paradigms-practices-2022
Abstract Submission Deadline	15 October, 2022

ABOUT BOOK

Digital Transformation as a Service (DXaaS) describes the technology and service components that help an enterprise during its Digital transformation journey. The advent of new technologies such as the Internet of Things (IoT), Machine Learning, Cloud computing, Quantum computing, Block chain technologies, Data Science and Big data technologies make the businesses to change their rules every day. These digital disruptions started transforming business processes and models continuously. Hence, Digital transformations are inevitable for any organization to withstand today's highly competitive global market. This book, 'Digital Transformation as a Service (DXaaS)' focuses on the platform required for managing continuous innovations and continuous optimizations of business processes. It classifies the DXaaS systems into six broad categories: DX Continuous Innovation Planning Systems, DX Governance Systems, DX Continuous Optimization Systems, DX Testing Systems, DX Release Orchestration Systems and DX Integrated Workplace. These systems contribute to achieve an enterprise to govern its digital transformation maturity cycle. This book will provide a roadmap for the Digital Transformation and guidelines for developing DXaaS systems, and also act as great source of information to start the Digital transformation journey for any company.

LIST OF TOPICS (BUT NOT LIMITED TO)

1. **Essentials of Digital Transformation and Industry 4.0 -** Key areas of Digital Transformation, Frameworks governing Digital Transformations
2. **Phases of Digital Transformation -** Plan, Design, Realize, Test, Release, Measure
3. **Digital Renaissance Movement -** Elastic Cloud Infrastructure, Modern Tech Stacks, Big Data, Business Intelligence & Data Analytics, Artificial Intelligence& Data Science, Machine Learning, Internet of Things, Robotics, RPA Platform, Vision Intelligence – Computer Vision, Mixed Reality, Augmented Reality, Mixed Reality, Extended Reality, 3D Printing, Digital Twins, Digital Workspace Technologies, Block chain, Metaverse
4. **Business drivers of Digital Transformation -** Pandemic Urgency & Business Continuity, Customer Experience & Expectations, Talent Acquisition, Role of AI, Emergence of Infrastructure Automation, Investment Impact and Cost Management
5. **Introduction to DXaaS Systems -** Evolution, Definition, Goals and Categories of DXaaS Systems – DX Continuous Innovation Planning Systems, Governance Systems, Continuous Optimization Systems, Continuous Testing Systems, Continuous Releases Systems, Digital Workplace Systems
6. **DX Continuous Innovation Planning Systems -** Introduction, Definition, Enterprise Architecture frameworks, Enterprise Innovations Lifecycle, Continuous Innovations and Strategic Planning, Business Case Development, Simulation of Processes and Projects, Fits-Gaps Evaluation, DX Design Workshops, Platform Specifications, Case Study (specific industry vertical based and a tool based)
7. **DX Governance Systems -** Introduction, Definition, Project Governance Architectures, OKR approach ,Project Lifecycle, Project Planning, ERP Transformation Initiatives ,Project Governance Frameworks (SAP Activate), Project Signoffs and Closures, Platform Specifications, Case Study (specific industry vertical based and a tool based)
8. **DX Continuous Optimization Systems -** Introduction, Definition, Business Process Management, Business Process Architecture Frameworks (BPMN 2.0), Process Discovery, Process Orchestration, Algorithms to determine the Criticality factor of business processes, Process Mining, Data Migration,

ERP Customizations, Custom Objects Transformation, End User Training, Change Management, Platform Specifications, Case Study (specific industry vertical based and a tool based)

9. **DX Continuous Testing Systems -** Introduction, Definition, Business Processes Testing Lifecycle, Different approaches for Business Process Testing, Test Governance Frameworks, Test Case Discovery, Test Data Management, Test Orchestration, Test Signoffs, Test Reports, Test Automation, RPA Innovations in Testing Industry, Platform Specifications, Case Study (specific industry vertical based and a tool based)

10. **DX Continuous Release Systems -** Architecture, Lifecycle, Value Engineering of Business Operations, Business Data Mining, Digital Twin, ROI Estimator, Process Optimizer, CXEX Optimizer, Release Impact Analysis, Change Impact Mining, DevOps/DevSecOps, Software Reliability Engineering, Platform Specifications, Case Study (specific industry vertical based and a tool based)

11. **DX Workplace Systems -** Architecture, Lifecycle, No-Code and Low Code Platform, Workflows, Access Control, Reports, Collaborative Channels, Integrations and APIs,Mobile ready, Customizability, Platform Specifications, Case Study (specific industry vertical based and a tool based)

12. **Tools for DXaaS**

   DX Continuous Innovation Planning Systems – KTern.AI Digital Maps, SAP Readiness Check, SAP Innovation Pathfinder, Tricentis Live Compare, Panaya S/4 Analyzer etc., Critical comparison between the tools

   DX Governance Systems – KTern.AI Digital Projects, SAP Cloud ALM for Implementation, Jira, AgilePoint, Microsoft Project etc., Critical comparison between the tools

   DX Continuous Optimization Systems – SAP Signavio, Celonis, Camunda, KTern.AI Digital Process etc., Critical comparison between the tools

   DX Continuous Testing Systems – Panaya, Worksoft, Tricentis Tosca, Micro Focus UFT, IFTT, Opskey, KTern.AI Digital Labs, UiPath Test Manager, Automation Anywhere etc., Critical comparison between the tools

   DX Continuous Release Systems – SAP Cloud ALM for Operations, SAP Solution Manager, KTern.AI Digital Mines, Release Owl etc., Critical comparison between the tools

   DX Workplace Systems – Microsoft Teams, Microsoft 365, Kissflow, Zapier, Appian, ServiceNow etc., Critical comparison between the tools

13. **Digital Transformation Maturity Lifecycle**

14. **CIO Action Plan for planning Digital Transformations**

15. **Industrial Practices -** Transformation initiatives from Chemical Industries,Semiconductor Industries, Manufacturing Industries, Engineering and Constructions, Public Sectors, Oil and Gas Companies

16. **Pitfalls to avoid in the Digital Transformation Journey -** Measuring the values delivered by a Digital Transformation, Success Factors of Digital Transformation (includes Organizational Change Management)

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IMPORTANT DATES

Abstract Submission	**15 October, 2022**
Abstract Notification	29 October, 2022
Full Chapter Submission Deadline	31 December, 2022
Submission of Camera-ready Version	31 January, 2022

SUBMISSION GUIDELINES

1. Abstract should have 500 words indicating the theme, purpose, methods and indicative results
2. Each book chapter should have 4000 to 8000 words. Max 15 pages
3. All chapters must be original and not simultaneously submitted to other journals/books/conference. Plagiarism should be less than 15% when reviewed using Turn tin.
4. Experimental work and case studies with novel techniques are more likely for acceptance.
5. All submitted chapters will be reviewed on a double-blind, peer-reviewed basis.
6. Original artwork and a signed copyright release form will be required for all accepted chapters.

CONTACT

All questions about submissions shall be emailed to dxaas-research@ktern.ai