

# LING SAN PROFESSOR NANYANG TECHNOLOGICAL UNIVERSITY Academic PDF

**Ling San Professor Nanyang Technological University** is a distinguished academic figure whose contributions have significantly impacted the fields of engineering, research, and higher education in Singapore. As a leading scholar at Nanyang Technological University (NTU), Professor Ling San has cultivated a reputation for excellence, innovation, and dedication to advancing knowledge. This article provides an in-depth look at Professor Ling San's professional background, research interests, contributions to NTU, and the broader impact on academia and industry.

## Who Is Ling San Professor?

### Academic Background and Qualifications

Professor Ling San holds a Ph.D. in Engineering from a prestigious university, complemented by numerous accolades recognizing her scholarly achievements. Her academic journey is marked by a commitment to excellence, continuous learning, and a passion for research. She has published extensively in reputable journals and has been a keynote speaker at international conferences.

### Career at Nanyang Technological University

Since joining NTU, Professor Ling San has held various roles, including faculty member, department head, and senior researcher. Her leadership has been instrumental in shaping the university's research initiatives, especially in engineering and technology sectors. She is known for fostering a collaborative environment and mentoring the next generation of engineers and researchers.

## Research Interests and Contributions

### Primary Research Areas

Professor Ling San's research spans multiple domains, including:

- Materials Science and Engineering
- Nanotechnology
- Advanced Manufacturing Processes
- Renewable Energy Technologies

- Smart Materials and Devices

Her work often focuses on developing innovative materials and solutions that address real-world problems, such as sustainability and energy efficiency.

## Notable Research Achievements

Some of Professor Ling San's most notable contributions include:

- Development of high-performance nanomaterials for energy storage
- Innovative manufacturing techniques for flexible electronics
- Design of smart materials with adaptive properties for use in aerospace and biomedical applications
- Research on sustainable energy solutions, including solar and wind energy technologies

Her pioneering research has led to numerous patents, collaborations with industry partners, and advancements that benefit society at large.

## Leadership and Impact at Nanyang Technological University

### Academic Leadership

Professor Ling San has played a pivotal role in NTU's strategic development, particularly in expanding its engineering faculty and research capabilities. She has been involved in curriculum development, promoting interdisciplinary research, and enhancing industry partnerships.

### Research Initiatives and Collaborations

Under her guidance, NTU has initiated several large-scale research projects in collaboration with government agencies, corporate partners, and international institutions. These projects aim to:

- Advance technological innovation
- Address sustainability challenges
- Enhance the university's global research reputation

Her efforts have helped position NTU as a leading hub for engineering research and innovation.

### Mentorship and Education

Beyond research, Professor Ling San is dedicated to education and mentorship. She mentors graduate students, encourages young faculty, and actively participates in outreach activities to promote STEM education among students of all ages.

## Recognition and Awards

Professor Ling San's exceptional contributions have been recognized through numerous awards and honors, including:

- National Science and Technology Awards
- Outstanding Educator Awards
- Leadership in Innovation recognitions
- Fellowships in professional engineering societies

These accolades affirm her status as a leader in her field and her commitment to advancing knowledge and innovation.

## The Broader Impact of Professor Ling San's Work

### Advancing Singapore's Innovation Ecosystem

Her research and leadership have significantly contributed to Singapore's reputation as a global hub for technological innovation. By fostering collaborations between academia and industry, she helps translate research into practical solutions that bolster economic growth.

### Influence on Global Scientific Community

Professor Ling San's publications, patents, and conference presentations have had a ripple effect across the international scientific community. Her work inspires other researchers and helps set new standards for excellence in engineering research.

### Contributions to Sustainability and Society

Her focus on sustainable energy and smart materials aligns with global efforts to combat climate change and promote environmental stewardship. Through her research, she develops technologies that have the potential to improve quality of life around the world.

## Future Directions and Ongoing Projects

Professor Ling San continues to push the boundaries of engineering research. Current projects

include:

- Development of next-generation energy storage systems
- Innovations in flexible and wearable electronics
- Research into environmentally friendly manufacturing processes
- Exploration of AI-driven materials design

Her future endeavors aim to tackle emerging challenges and further elevate NTU's position as a leader in science and technology.

## Conclusion

In summary, **Ling San Professor Nanyang Technological University** exemplifies academic excellence, visionary leadership, and a relentless pursuit of innovation. Her diverse research portfolio, commitment to mentorship, and strategic leadership have profoundly influenced NTU's growth and reputation. As she continues to contribute to engineering and scientific advancements, her work not only benefits Singapore but also resonates globally, inspiring future generations of researchers and innovators.

Whether through groundbreaking research, inspiring leadership, or dedicated mentorship, Professor Ling San stands as a pillar of NTU's academic community and a beacon of progress in the global scientific landscape.

Ling San Professor Nanyang Technological University: An In-Depth Investigation into Academic Leadership and Contributions

### Introduction

In the rapidly evolving landscape of higher education and technological innovation, the role of distinguished academic leaders is pivotal. Among such figures stands Ling San, a renowned professor affiliated with Nanyang Technological University (NTU) in Singapore. With a career marked by pioneering research, strategic leadership, and impactful contributions to engineering and technology sectors, Professor Ling San exemplifies the ideal of academic excellence intertwined with societal progress. This investigative article aims to provide a comprehensive review of Professor Ling San's background, academic pursuits, leadership roles, and impact within NTU and beyond.

## Background and Academic Credentials

### Educational Foundation

Professor Ling San's academic journey commenced with a solid foundation in engineering, where she earned her undergraduate degree from a reputable university. Her pursuit of advanced studies led her to obtain a Ph.D., specializing in areas critical to modern engineering disciplines such as materials science, manufacturing processes, or mechanical engineering, though specific details may vary depending on available information.

## Academic Milestones

Throughout her career, Professor Ling San has accumulated numerous accolades, including:

- Recognition for innovative research in her field.
- Leadership awards within her university and professional societies.
- Fellowships in prominent engineering and scientific organizations.

Her educational background not only underscores her expertise but also highlights her commitment to continuous learning and contribution to her field.

## Academic and Research Contributions

### Research Focus and Innovations

Professor Ling San's research primarily revolves around cutting-edge engineering topics such as:

- Advanced manufacturing techniques.
- Materials engineering and nanotechnology.
- Sustainable engineering solutions.
- Robotics and automation.

Her innovative approaches have led to breakthroughs that influence industrial practices and academic scholarship alike. Notable research achievements include:

- Development of novel materials with enhanced properties.
- Optimization of manufacturing processes for efficiency and sustainability.
- Contributions to the development of smart systems and automation.

## Publications and Intellectual Output

A prolific scholar, Professor Ling San has authored or co-authored numerous peer-reviewed journal

articles, conference papers, and book chapters. Her publications are widely cited and form a significant part of the academic discourse in her specialties.

The impact of her research is evidenced by:

- Citation metrics reflecting her influence.
- Invitations to present at international conferences.
- Collaboration with industry leaders and research institutions.

## **Research Grants and Funding**

Securing competitive grants is a testament to her research excellence. She has led multiple funded projects, often emphasizing interdisciplinary collaboration and real-world applications that benefit society and industry.

## **Leadership at Nanyang Technological University**

### **Administrative Roles and Responsibilities**

Professor Ling San has held various leadership positions within NTU, including:

- Department Chair/Head of Engineering faculty.
- Director of research centers or institutes.
- Deputy Dean or Dean of Engineering faculties.
- Senior administrative roles overseeing strategic planning and academic development.

Her leadership has been characterized by a focus on fostering innovation, enhancing research capabilities, and elevating NTU's global standing.

### **Strategic Initiatives and Achievements**

Under her guidance, NTU has:

- Strengthened its research output and industry collaborations.
- Implemented programs to attract top-tier faculty and students.
- Promoted interdisciplinary projects addressing societal challenges.
- Expanded infrastructure supporting research and innovation.

Her initiatives have contributed to NTU's reputation as a leading technological university in Asia and globally.

## **Mentorship and Academic Community Building**

Beyond administrative duties, Professor Ling San actively mentors junior faculty, postdoctoral researchers, and students. She advocates for diversity, inclusion, and academic integrity, fostering a vibrant scholarly community.

## **Industry and Societal Impact**

### **Industry Collaborations and Technology Transfer**

Professor Ling San has been instrumental in bridging academia and industry. Her efforts include:

- Establishing partnerships with multinational corporations.
- Facilitating technology transfer and commercialization of research.
- Participating in national innovation initiatives.

These collaborations have resulted in the development of market-ready solutions, patents, and startups that drive economic growth.

### **Contributions to National and Regional Development**

Her work aligns with Singapore's national priorities in technological advancement and sustainability. Notable contributions include:

- Advising government agencies on science and technology policies.
- Promoting STEM education and outreach programs.
- Supporting initiatives for sustainable development and green technologies.

### **Community Engagement and Public Outreach**

Professor Ling San actively participates in community initiatives, promoting science literacy and inspiring the next generation of engineers and scientists.

## **Critical Analysis and Perspectives**

### **Strengths and Achievements**

- Academic Excellence: Her prolific publication record and research innovations position her as a leading figure in her field.
- Leadership Impact: Her strategic vision has helped elevate NTU's research stature and global reputation.
- Societal Contributions: Her industry collaborations and policy advice showcase her commitment to societal progress.

## Challenges and Areas for Development

- Balancing administrative responsibilities with active research remains a common challenge among academic leaders.
- Ensuring inclusivity and diversity within the engineering faculty could be further emphasized.
- Continual adaptation to rapid technological changes requires ongoing professional development and strategic foresight.

## Future Outlook

Looking ahead, Professor Ling San's influence is likely to grow, especially as she champions emerging fields such as artificial intelligence, sustainable engineering, and digital transformation. Her role will be critical in shaping NTU's future trajectory and contributing to regional innovation ecosystems.

## Conclusion

Ling San Professor Nanyang Technological University epitomizes the modern academic leader—combining scholarly excellence with strategic vision and societal commitment. Her extensive research contributions, leadership in fostering a vibrant academic community, and dedication to societal development underscore her significance within NTU and the broader scientific community. As higher education continues to evolve amidst global challenges and technological revolutions, figures like Professor Ling San serve as beacons of innovation, integrity, and impact. Her ongoing journey promises to inspire future generations of engineers, researchers, and leaders committed to shaping a better world through knowledge and collaboration.

**Question** Who is Ling San and what is his role at Nanyang Technological University?  
Ling San is a renowned professor at Nanyang Technological University (NTU) who specializes in engineering and technology, serving as a faculty member and researcher in his field. What are Ling San's main research interests at NTU? His main research interests include sustainable engineering, materials science, and innovative manufacturing processes. Has Professor Ling San received any notable awards or recognitions at NTU? Yes, Professor Ling San has received several awards for his contributions to engineering research and education at NTU, including prestigious national and

international honors. What contributions has Ling San made to NTU's engineering programs? He has played a key role in curriculum development, establishing research collaborations, and mentoring students within NTU's engineering faculty. Is Professor Ling San involved in any industry collaborations or startups? Yes, he actively collaborates with industry partners and has been involved in startups focusing on innovative manufacturing and sustainable technologies. What recent projects has Professor Ling San led at NTU? Recently, he led projects on advanced materials for sustainable construction and smart manufacturing solutions at NTU. How can students at NTU benefit from Professor Ling San's expertise? Students can benefit through mentorship, participating in his research projects, and attending seminars or workshops he conducts on cutting-edge engineering topics. Does Professor Ling San publish research papers, and where can they be accessed? Yes, he publishes extensively in international journals and conferences, with his work accessible through academic databases like IEEE Xplore, ScienceDirect, and NTU's repository. What is the future vision of Professor Ling San for engineering education at NTU? He envisions a future where NTU leads in sustainable and innovative engineering education, integrating emerging technologies to prepare students for global challenges.

**Related keywords:** Ling San, Nanyang Technological University, NTU professor, engineering professor NTU, Singapore university faculty, mechanical engineering NTU, NTU research professor, academic staff NTU, university lecturer Ling San, Singapore engineering education, NTU faculty profile

## technological innovation melissa schilling

### Technological Innovation Melissa Schilling

In today's rapidly evolving technological landscape, visionary thinkers and innovators are shaping the future of industries and society. Among these pioneering individuals, Melissa Schilling stands out as a prominent scholar and researcher whose work on technological innovation has garnered widespread recognition. Her insights into how innovation occurs, the dynamics of technological change, and the strategies that foster breakthrough inventions have made her a key figure for entrepreneurs, academics, and policymakers alike. This comprehensive overview explores Melissa Schilling's contributions to the field, her key ideas on technological innovation, and the practical implications of her research.

## Who Is Melissa Schilling?

### Background and Academic Credentials

Melissa Schilling is a distinguished professor of management and organizations, renowned for her research on innovation, strategy, and technological change. She holds advanced degrees in business and engineering, which uniquely position her to analyze complex technological phenomena from both a technical and managerial perspective. Her academic career has been primarily centered at New York University's Stern School of Business, where she has taught courses on innovation, strategy, and entrepreneurship.

## Research Focus and Expertise

Schilling's research focuses on understanding how technological innovations emerge, develop, and influence industries. Her work often combines theoretical models with empirical case studies, enabling a deep understanding of the mechanisms driving technological change. She is particularly interested in:

- The lifecycle of technological innovations
- The role of entrepreneurial ventures in innovation
- The interplay between technological and organizational change
- Strategies for managing innovation within firms

## Key Contributions to Technological Innovation

### Understanding the Dynamics of Innovation

Melissa Schilling has contributed significantly to the understanding of how innovations evolve over time. Her research highlights that innovation is rarely a linear process but rather involves complex interactions of various factors, including technological trajectories, market forces, and organizational capabilities.

### Models of Innovation and Technological Change

Some of her notable contributions include:

- **The Technological Trajectory Model:** Schilling emphasizes that technological progress often follows predictable pathways or trajectories, which are shaped by scientific discoveries, engineering advancements, and market demands.

- **The Innovation Ecosystem Framework:** She advocates viewing innovation as part of a broader ecosystem involving multiple stakeholders, including firms, universities, government agencies, and customers.

- **Disruptive Innovation Analysis:** Building on theories by Clayton Christensen, Schilling

explores how disruptive technologies can overturn existing markets and create new opportunities, emphasizing the importance of recognizing early signals of disruption.

## Strategies for Fostering Innovation

Melissa Schilling's work also provides practical guidance for organizations seeking to enhance their innovation capabilities:

- Encouraging cross-disciplinary collaboration to generate novel ideas
- Investing in R&D and understanding technological trajectories
- Creating organizational structures that support experimentation and risk-taking
- Monitoring emerging technologies and market shifts to anticipate opportunities

## Notable Publications and Case Studies

### Academic Publications

Melissa Schilling has authored numerous influential articles and books, including:

- "Strategic Management of Technological Innovation" ? A comprehensive textbook that explores theories and practices related to managing innovation within organizations.
- Research articles on topics such as technological evolution, innovation ecosystems, and the impact of organizational structure on R&D success.

### Case Studies and Real-World Applications

Her research often involves detailed case studies of leading technology firms, such as:

- The rise of Tesla in electric vehicles
- The development of Apple's ecosystem of products and services
- The innovation strategies of pharmaceutical companies in drug development

These case studies reveal patterns and principles that can be applied by managers and entrepreneurs to accelerate innovation and sustain competitive advantage.

## Implications for Industry and Society

### Driving Business Growth

Organizations that understand and leverage the principles of technological innovation as outlined by Melissa Schilling can:

- Identify emerging technologies early
- Develop innovative products that meet evolving customer needs
- Build resilient organizational structures capable of adapting to change
- Create strategic alliances to access complementary assets and knowledge

## Influencing Policy and Education

Schilling's insights also inform policymakers seeking to foster innovation ecosystems and support research and development initiatives. Furthermore, her work guides educational programs aimed at cultivating future innovators and entrepreneurs.

## Current and Future Directions in Schilling's Research

### Emerging Technologies and Innovation Challenges

Melissa Schilling continues to explore how emerging technologies such as artificial intelligence, biotechnology, and quantum computing will reshape industries. Her focus includes examining:

- The convergence of multiple technologies
- Ethical considerations in innovation
- The role of government and policy in managing technological change

### Interdisciplinary Approaches to Innovation

Future research from Schilling emphasizes integrating insights from fields such as systems theory, complexity science, and behavioral economics to deepen understanding of innovation processes.

## Why Melissa Schilling's Work Matters

Melissa Schilling's research provides both theoretical frameworks and practical strategies that are vital for navigating the complexities of technological innovation. Her work equips organizations with the tools to anticipate technological shifts, manage R&D effectively, and foster cultures of continuous improvement. For entrepreneurs and managers, understanding her insights can lead to more strategic decision-making and sustained competitive advantage.

## Conclusion

Melissa Schilling's contributions to the study of technological innovation have significantly advanced both academic understanding and practical application. Her models, frameworks, and case studies serve as invaluable resources for anyone interested in how innovation drives progress in industries and society. As technology continues to accelerate, her insights will remain crucial for navigating the challenges and opportunities that lie ahead. Whether you are a business leader, researcher, or policy maker, embracing the principles of technological innovation as articulated by Melissa Schilling can help you stay ahead in an ever-changing world.

## Technological Innovation Melissa Schilling: Pioneering Insights into Disruptive Change and Innovation Strategy

In the rapidly evolving landscape of technological progress, understanding the drivers of innovation and disruption has become paramount for scholars, entrepreneurs, and policymakers alike. Among the leading voices in this domain is Melissa Schilling, a renowned scholar whose research has significantly advanced our comprehension of how technological innovation shapes industries and societies. Her work offers a comprehensive framework for analyzing innovation dynamics, emphasizing the importance of technological diversity, interconnectedness, and strategic adaptation. This article provides an in-depth examination of Melissa Schilling's contributions, exploring her theoretical frameworks, key research findings, and their implications for fostering sustainable innovation.

## Overview of Melissa Schilling's Academic Background and Research Focus

### Academic Credentials and Career Trajectory

Melissa Schilling holds a distinguished academic background, primarily rooted in management and innovation studies. She earned her Ph.D. in Management from the University of California, Berkeley, and currently serves as a Professor of Management at New York University's Stern School of Business. Her academic career is marked by a persistent focus on understanding the mechanisms that drive technological change, innovation ecosystems, and industry evolution.

### Core Research Themes

Schilling's research encompasses several key themes:

- The nature and dynamics of technological innovation
- The process of technological disruption and industry transformation
- The role of technological diversity and interconnectedness
- Strategic management of innovation portfolios

- The evolutionary patterns of technological systems

Her work is characterized by a multidisciplinary approach, integrating insights from economics, engineering, sociology, and management sciences to create holistic models of innovation processes.

## Foundational Concepts and Theoretical Frameworks

### The Innovation Ecosystem Perspective

One of Schilling's significant contributions is her emphasis on the innovation ecosystem, a complex network of interconnected technologies, firms, and institutions that collectively influence innovation trajectories. She posits that understanding these ecosystems is crucial for predicting technological shifts and managing innovation strategically.

### Technological Diversity and Its Impact

A central concept in Schilling's work is technological diversity, which refers to the variety of different technological capabilities within an industry or organization. She argues that:

- Higher diversity fosters creativity and exploration of novel solutions
- It buffers against market shocks and technological obsolescence
- Managing technological diversity effectively is key to sustaining competitive advantage

Her research demonstrates that firms and industries with rich technological diversity are better positioned to adapt to changing environments and capitalize on emerging opportunities.

### Connectedness and Technological Interdependence

Schilling explores how technological interdependence, or the degree to which different technologies are connected and influence each other, shapes innovation pathways. Interconnected technologies can:

- Accelerate innovation by enabling recombination of ideas
- Create complex dependencies that can either facilitate or hinder disruption
- Lead to the emergence of dominant design paradigms

Understanding these connections allows firms to identify leverage points and potential vulnerabilities within technological systems.

# Key Contributions to Understanding Technological Disruption

## The Dynamics of Disruption and Sustained Innovation

Melissa Schilling's insights into technological disruption extend beyond the traditional models. She emphasizes that:

- Disruption often originates from fringe or emerging technologies that initially serve niche markets
- Successful disruption involves not just technological superiority but strategic market positioning
- Firms must balance exploitation of current capabilities with exploration of new technological avenues

Her work underscores the importance of ambidextrous innovation, where organizations simultaneously pursue incremental improvements and radical breakthroughs.

## Case Studies and Practical Examples

Schilling's analysis includes case studies from industries such as:

- The evolution of the smartphone industry, illustrating how technological ecosystems and interconnected innovations led to dominant market players
- The renewable energy sector, highlighting how technological diversity and policy interventions influence industry disruption

These examples concretize her theories and demonstrate their practical applicability.

## Strategic Management of Innovation Portfolios

### Balancing Incremental and Radical Innovation

Schilling advocates for a nuanced approach to innovation management:

- Incremental innovations refine existing technologies and improve efficiency
- Radical innovations introduce fundamentally new capabilities, often disruptive

Effective firms manage a portfolio that balances both, leveraging technological diversity to foster continuous growth while exploring disruptive options.

## Innovation Roadmapping and Foresight

Her research emphasizes the importance of innovation roadmapping—a strategic process to anticipate future technological trends and allocate resources accordingly. This involves:

- Mapping technological capabilities and their interdependencies
- Identifying emerging technologies with disruptive potential
- Developing flexible strategies to adapt to uncertain futures

## Implications for Industry and Policy

### Fostering Innovation Ecosystems

Policymakers can draw from Schilling's insights to:

- Support collaborative networks that enhance technological diversity
- Invest in research institutions and industry clusters
- Encourage cross-sector partnerships to catalyze recombination of technologies

### Managing Technological Change in Firms

Organizations should:

- Cultivate a culture of experimentation and exploration
- Invest in diverse technological capabilities
- Monitor interconnected technological developments for early signs of disruption

### Addressing Challenges of Disruption

Schilling's work also highlights potential challenges:

- Managing technological dependencies that could inhibit agility
- Avoiding over-reliance on a single technological paradigm
- Navigating regulatory and societal implications of disruptive innovations

## Future Directions and Ongoing Research

Melissa Schilling continues to advance the field by exploring:

- The role of artificial intelligence and digital platforms in shaping innovation ecosystems
- The impact of global networks and open innovation models
- Strategies for navigating complex, multi-level technological change

Her ongoing research aims to deepen understanding of how emerging technologies can be harnessed responsibly and effectively to foster sustainable innovation.

## **Conclusion: The Significance of Melissa Schilling's Work in Innovation Strategy**

Melissa Schilling's contributions offer a robust theoretical and practical foundation for understanding how technological innovation unfolds and disrupts industries. Her emphasis on technological diversity, interconnectedness, and strategic management provides valuable insights for firms seeking to innovate effectively amid rapid change. As industries become increasingly complex and interconnected, her frameworks serve as essential tools for navigating the uncertain terrain of technological evolution.

By integrating multidisciplinary perspectives, Schilling's work underscores that innovation is not merely a matter of technological breakthroughs but a strategic ecosystem process. Her ongoing research continues to shape best practices for fostering resilient, adaptive, and innovative organizations in an era defined by constant technological transformation.

**Question** Who is Melissa Schilling and what is her contribution to technological innovation? **Answer** Melissa Schilling is a renowned professor and researcher known for her work on technological innovation, disruptive technologies, and innovation management. She has contributed to understanding how firms develop and adopt innovative technologies to stay competitive. What are some key concepts from Melissa Schilling's research on innovation? Her research emphasizes concepts like the innovation ecosystem, technological trajectories, and the importance of dynamic capabilities in fostering sustainable innovation within organizations. How does Melissa Schilling explain the success of disruptive technologies? Schilling explains that disruptive technologies often succeed by initially targeting overlooked market segments, leveraging unique capabilities, and gradually improving to challenge established incumbents through strategic innovation. What role does Melissa Schilling see for companies in managing technological change? She advocates for proactive innovation strategies, including investing in R&D, fostering a culture of experimentation, and understanding technological trajectories to effectively manage and adapt to technological change. Are there any notable publications by Melissa Schilling on technological innovation? Yes, she has authored influential articles and books, including 'Quirky' and numerous journal papers that explore innovation strategies, technological evolution, and disruptive innovation management. How

can organizations apply Melissa Schilling's insights to enhance their innovation processes? Organizations can leverage her frameworks by mapping technological trajectories, fostering ambidextrous innovation, and aligning their R&D efforts with emerging technological trends to stay ahead in competitive markets. What is the significance of Melissa Schilling's work in today's rapidly evolving technological landscape? Her work provides critical insights into how organizations can navigate technological disruptions, leverage innovation ecosystems, and develop sustainable competitive advantages in the face of rapid technological change.

**Related keywords:** technology innovation, Melissa Schilling, disruptive innovation, innovation management, strategic innovation, technological change, innovation ecosystems, R&D strategy, innovation leadership, technological entrepreneurship

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