

# 2020 AICT/CAS Joint Property/Casualty and Health Actuarial Seminar

## Seminar Information

9/15 Seminar		Outline
09:10   10:00	<b>Health Insurance: Dynamic Pricing With Wearables</b>	<p>A look at how wearables will change health insurance pricing, comparisons to traditional pricing, benefits to insurers, and roles of actuaries.</p> <ul style="list-style-type: none"> <li>• Traditional health pricing; pros and cons of traditional health pricing</li> <li>• Wearables: how they work and what they tell us; Big Data</li> <li>• Comparisons to safe driving apps</li> <li>• Definition of dynamic pricing; how would it work with wearables</li> <li>• Predictive Analytics and AI algorithms for health pricing</li> <li>• Why wearables could predict pandemics such as COVID-19</li> <li>• Contract tracing with wearables; social media and wearables</li> <li>• Ethics and wearables</li> <li>• Customer incentives</li> <li>• Role of actuaries</li> </ul>
10:00   10:50	<b>Health Insurance: COVID-19 Model- a tool designed to capture ultimate extra deaths as a result of COVID-19</b>	<p>A COVID-19 tool will be demonstrated in this session. The tool is designed to capture ultimate extra deaths as a result of COVID-19. It provides an estimate of extra deaths by age and sex for any chosen country where statistics are readily available. Extra deaths are illustrated per 100,000 of the relevant age and sex and in total by age. The user only has to select the country and the ultimate population infection rate. Users can also adjust for insured to population ratios of mortality. This tool can be used to estimate COVID-19 extra deaths for pricing, valuation, stress testing and other work.</p>
11:10   12:00	<b>Health Insurance: Tell Me What's New in the US</b>	<ul style="list-style-type: none"> <li>• Briefly Introduction of Healthcare in the US today</li> <li>• Evolving Technology</li> <li>• Why Telehealth</li> <li>• The potential for telehealth/wearables</li> <li>• Considerations of Evolving Technology</li> <li>• Generic Testing</li> <li>• different evolutionary paths in Taiwan and US</li> </ul>
13:30   14:20	<b>Health Insurance: The invisible influence on insurance purchase decision</b>	<p>In this session, we will discuss learnings from behavioral economics that influence a consumer's insurance purchase decision and how these learnings could be applied in practice. Behavioral economics is an alternative to the traditional approach of understanding insurance consumer behaviors, providing insights into individual decision-making and actions that go beyond the purely rational model.</p>
14:20   15:10	<b>Health Insurance: AI system in health claim operation</b>	<p>Claim operations have been KPI driven to fulfill service level agreements. Despite the financial impact, fighting against fraud wastage and abuse still relies on judgment by individual adjudicators. In this session, we study a use case on how AI can be used to support adjudication and select high-risk claims systematically through OCR, RPA, and machine learning.</p>